

# Manufacturers Record

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

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## The South to Enter Upon the Greatest Development in Its History.

**W**HATEVER may be the political views or affiliations of the reader, every thoughtful man studying the whole situation must realize that the election of Mr. Hoover partly through the vote of all Southern states except four will necessarily mark the beginning of the greatest period of material advancement the South has ever known, and necessarily soon.

Heretofore the political solidarity of the South made Republican politicians feel that nothing that could be done in the way of Federal appropriations in the South would affect the vote of this section. Granted that the views of the Republicans in this respect were somewhat selfish, in seeking to advance the prosperity of the states under Republican control or those which were debatable ground, the recent election has made the entire South fighting ground for the two parties.

Republican legislators, and financiers interested in the progress of the Republican party, will henceforth be tremendously interested in doing all in their power to win the votes of the South by Federal aid in the matter of public buildings, waterway improvements, and everything else which can in any way whatever advance the prosperity of this section.

For the first time since the Civil War, therefore, the two great parties will vie with each other in striving to advance the progress of the South in order to win the votes of Southern people. This is a condition and not a theory. It means that for the first time both the great parties will be united in every cooperative work for the prosperity of the South. It means that business men in the North and West will at the same time have a new and deeper interest in the progress of this section.

The situation is perhaps the most unusual that America has ever seen. Inevitably there will come an advancement of the whole South from Maryland to Texas such as even the most optimistic of Southern people have not heretofore visualized. Mr. Hoover's enthusiastic praise of the South and its future, his determination as expressed just after his election through the MANUFACTURERS RECORD to do whatever is in his power to advance the progress of the South, is but the natural fulfilment of his remarkable vision of nationalism and his almost unequalled experience in managerial work and in great engineering operations, it might be said, almost throughout the world. As stated in his letter to this paper, he believes in an intercoastal canal from Boston to the far limits of Texas. Two years before his nomination he gave voice to the thought that the greatest unutilized asset of America is its waterways, which have been developed to a very limited extent compared with their potentialities. He

will therefore inevitably strive to see that this inland waterway is rapidly completed and that the flood control work of the whole Mississippi Valley is pushed with all possible energy, because if the engineers who are on the job do not crowd the work Mr. Hoover as an engineer will soon know the reason why. There are many other river and harbor projects in the South the development of which will be of enormous value to this section that will claim the prompt attention and the hearty cooperation of Mr. Hoover.

Several years ago Mr. Hoover strongly urged that during periods of business depression the Government should undertake to carry forward as much construction work on public buildings and other improvement as possible in order to take up the slack and bring prosperity back. It may therefore be counted upon with certainty that public building work in the South where it is so badly needed will be carried forward as rapidly as Mr. Hoover can adjust the situation and push forward the things which will make for employment and general prosperity. It would be foolish of course for the South to expect that Mr. Hoover will concentrate all his efforts upon this section to the exclusion of other sections, but recognizing as he fully does something of the vast resources of the South, something of its limitless possibilities for advancement to its own good and the enrichment of the nation, he will throw into every enterprise justified by the situation that indomitable energy which has made him one of the outstanding figures of the world for all time.

Although Republican politicians may in some cases oppose Mr. Hoover, as many of them opposed his nomination, they will feel compelled in order to gain the votes of the South and to prevent it from returning to the political solidarity of the past to cooperate to the utmost extent possible with everything that relates to the progress of this section.

These are facts which the business men of the South can fully appreciate, and whether they voted for or against Mr. Hoover they can recognize that the situation is such that both parties and the President-elect will put forth the utmost energy to advance the progress of the South. It may therefore be counted upon we think with absolute safety that an entirely new epoch has come to the South, a new birth for the larger utilization of its great resources, and that instead of Democratic legislators having as oftentimes in the past to fight hard for Congressional legislation in favor of the South they will now in all probability be surpassed in activity in this line by the Republicans. It is a tremendously interesting situation, pregnant with a development and a material progress which will make all that has been done in the past seem almost like child's play as compared with what is ahead of this section.

### Manufacturers Record Not For Sale.

**T**HERE have been rumors in certain quarters that the **MANUFACTURERS RECORD** has been sold to New York interests. They are absolutely without any foundation. Overtures have often been made, asking that a price be named at which this paper could be bought. To every suggestion of that kind the reply has been made that the **MANUFACTURERS RECORD** was not for sale at any price.

The work of this paper for the South during the 47 years of its existence has been singularly successful. It has become a part of the innermost fibre of Southern business life. Its opportunity for greatest service and usefulness is before it.

I most emphatically deny these rumors.

RICHARD H. EDMONDS.

### "NO MAN E'ER FELT THE HALTER DRAW, WITH GOOD OPINION OF THE LAW."

**M**ICHIGAN passed a law to the effect that any one convicted four times of felony should be punished with a life sentence. That law has been upheld by the Supreme Court of the state. It is somewhat similar to the New York Baumes Law.

Wet newspapers and liquor agitators have tried to make much over the fact that a woman convicted four times of violating the prohibition law, a felony in Michigan, had been condemned to life imprisonment. With great sob stories they have paraded the fact that she is the mother of ten children, and that to send such a woman to the penitentiary for life is an unspeakable outrage upon humanity.

Now, as a matter of fact, according to Congressman Hudson of Michigan, of the ten children to whom this woman has given birth only four are living, and three of them are married; the records of the City of Lansing show that for about every three months from 1920 up to the present time, this family has been in police trouble for harboring immoral people, for leading immoral lives themselves, and they have been frequently arrested for bootlegging and drunkenness both on the part of the father and the members of the family. The woman's record shows many arrests from 1924 for specific violation of the prohibition law. In 1924, according to Congressman Hudson, she served 60 days in the county jail; in 1925 she was condemned six months to a year in the Detroit House of Correction and in 1927 condemned to six months in the House of Correction. Quoting from Congressman Hudson's statements, the Religious Herald calls attention to the fact that in 1928 for the fourth felony offence of which she was convicted, the automatic result was a sentence to the House of Correction for the remainder of her life. Mr. Hudson said in Congress:

"My contention is that if we are going to waste our tears and sobs over somebody who has been hurt by the law, then we should take some one who is worthy of it and not a character of this kind."

The Detroit Free Press in a recent issue commenting on the case, said that "this woman has been in trouble with the law a large number of times, and when last apprehended she had a twelve-year old girl in her place serving drinks to her customers," and that "she is a confirmed and obstinate law-breaker, a menace to the community where she lived," and that the thing to do was to place her where she could cause no more trouble.

Since when has it been considered a distinguished honor and a blessing to the country for a confirmed criminal, constantly violating the law, to give birth to ten children? Are we breeding a race of criminals by praising the woman who is guilty of bringing into the world ten prospective criminals?

Has not the time come when to save itself from ruin society must find some way to prevent the birth of children by confirmed criminals, inebriates and morons?

With the birth rate among the educated and the higher elements of society decreasing, the birth rate among criminals and aliens of the lower classes is rapidly increasing. Under these conditions, what will be the final result to society and to the world if such conditions are permitted to continue? Have we not reached a very dangerous time when such a character as this Michigan criminal is paraded before the country as having performed a wonderful work in being the mother of ten children, regardless of the criminality of which she has been guilty, of her constant warfare with society, disregarding entirely in public statements that only four children are living, and three of them are married, and carrying forward this propaganda in a way to make people believe that ten children dependent upon this woman are deprived of a mother's care?

Here is a striking illustration of the apparent propaganda which is being carried on by the liquor interests, by the wet papers, and by the badly informed sentimentalists who seem to think more of the criminal than they do of the one whom the criminal has injured; who coddle the murderer and forget the sufferings of the family of the murdered man. Much of our criminality is due to this spirit which is abroad in the land, especially from weak-minded women who bedeck the cells of criminals with flowers and send them scented notes of admiration; who fill the newspapers with pleas for their pardon, that they may be turned loose on the world again, while those whom they have murdered or robbed are forgotten by this sentimental, gushy mushy class of people.

Congressman Hudson has done the country a great service in presenting through Congress the actual facts.

### WHAT SCHWAB DOES.

What does Charlie Schwab do when he is not predicting eras of great prosperity for the United States?—*Macon Telegraph*.

Mr. Schwab has always shown his faith in the prosperity of the United States not merely by talking, but by raising and spending millions of dollars in developing one of the greatest steel companies in the world. Into his Baltimore steel plant and shipbuilding yard he has put between \$75,000,000 and \$100,000,000 since he purchased years ago what was then thought to be a big plant already in operation. The Bethlehem Steel Corporation, which in its present vast size is a creation of Mr. Schwab's, has spent millions on top of millions at Bethlehem, Pa., and at various other points. And so Mr. Schwab is everlastingly helping to create the eras of prosperity about which he sometimes talks; but his actions in this respect always speak far louder even than his words.

### A VIRGINIA MISTAKE.

**P**ROF. WM. R. SMITHEY, chairman of the Committee on Publicity of the University of Virginia, in the course of a letter to the **MANUFACTURERS RECORD** writes:

"Let me advise that all state institutions in Virginia are prohibited under the provision of the appropriation bill of the Virginia General Assembly from advertising."

We do not know who prompted the passage of such a law, but we do know that it is a very great blunder, for it deprives Virginia institutions of the right to make known to the country at large their advantages.

The University of Virginia has a chairman of a committee on publicity, but evidently that committee has no authority to spend money on advertising, but must only seek free publicity in any way in which it can be secured. In this the good old State of Virginia has seriously hampered its state institutions.



### BUILD THE NICARAGUAN CANAL.

**D**URING January 608 merchant ships passed through the Panama Canal, and in addition thereto 117 units of the United States fleet made their way from one terminus to the other. Commenting on this Brisbane in his syndicated letters to various papers throughout the country said:

"The country needs another canal, and a Nicaragua canal should be built at sea level to take care of growing ocean-to-ocean traffic.

"The Nicaragua canal would provide this country with a canal from the Atlantic to the Pacific without the locks, so easily destroyed.

"The navy, which played at war the other day, attacking and defending the Panama canal, admits that the attackers, theoretically, 'destroyed the canal.' They say that if the navy had more fast cruisers the defense would have been successful.

"On the other hand, if an enemy came with a few high powered bombing machines without any cruisers or any ships on the water, the canal could be destroyed, and floating ships would mean nothing.

"This country has bought from Nicaragua the right to build a canal, and the canal should be built, without loss of time. That will be one of Herbert Hoover's jobs."

A cable from Lewis R. Freeman to the New York Times from the U. S. S. California in Panama Bay on January 29, referring to the war game said:

"At the moment the outstanding impression here is the astonishment of the civilian population over the ease with which all the locks of the Panama Canal were reached and 'bombed' from the 'enemy' airplane carrier well over 100 miles at sea, far beyond the zone of effectively dependable mines and submarines. \* \* \* The Times' correspondent is reliably informed that a Sikorsky plane launched from the aircraft carrier Armoostook of the Black fleet for an overland flight 'bombed' Gatun locks of the canal on Saturday morning under the command of Lieut. Pawlilowski."

It has long been recognized by thinking men that this country is in a very dangerous condition in peace or in war by having only one canal connecting the Atlantic and the Pacific. In one sense that canal really intensifies our situation from the danger point of view. Through it we have created an enormous traffic, and any interruption of this commerce would produce almost instant chaotic conditions in a wide range of business interests. It might also seriously affect our ability to defend ourselves against an attack, for if it ever happened that any nation desired to go to war against the United States it might be that the canal would be bombed and put out of commission before war was declared. There are very many ways in which this country could be attacked to the great advantage of the attacking country and to our serious disadvantage.

The MANUFACTURERS RECORD deploras war and would hope, if hope did not carry the thought of belief, that there would never be another war. But we do not believe that the world has reached a point where wars have been entirely eliminated. Considered, however, from the business point alone, the Nicaraguan Canal is needed for commerce. The world's trade is shifting. Vast developments are under way in the Orient and on the west coast of South America. This country, if it utilizes its full opportunities, can turn the current of the world's trade to our own enormous advancement of business and wealth. The Nicaraguan Canal would be of immeasurable advantage in furthering this work.

We must remember that about two-thirds or more of the world's population are extremely backward, measured by their income and their consuming power, and yet that they are branching out in a way which will mean in the next few years a higher range of wages and an enormous expansion in consuming power. The country which can hold a strong position in the commerce of these people of the Orient will

become rich beyond the dreams of today. That opportunity is ours; but to avail ourselves of it we must build, and build as rapidly as it can be done, the Nicaraguan Canal.

It is difficult, if not impossible, to estimate the amount of good that such a canal would bring to the South and the West, as well as to the country as a whole; for whatever enriches the South and the West will add to the wealth of the entire country.

### TO MODERNIZE AN ANTIQUATED CALENDAR.

**A**S a step toward the modernizing or simplification of the calendar, Representative Porter has introduced in Congress a joint resolution requesting the President to propose the calling of an international conference for that purpose and appropriating \$20,000 for American participation in the meeting. The measure is very much on the line of a resolution unanimously adopted by delegates from 21 nations at the Pan-American Conference of February, 1928.

While Mr. Porter's resolution does not specify the form of calendar to be adopted, it strongly implies endorsement of an arrangement for 13 months, each of four weeks, or 28 days, all months to have the same number of workdays, Saturdays and Sundays, and fractions of weeks at month-ends to be eliminated. This new calendar, the resolution suggests, should be put into effect in 1933, "when January 1 falls on Sunday, and the interval between 1929 and 1933 would be needed to prepare for the change."

That the present calendar is unsuited to present day conditions is proved by the many and varied amendments and substitutes proposed by individuals and organizations over a long period of years. In the very nature of things, the present calendar cannot be considered suitable in this day. Based on a form originated before the founding of Rome, the present, Gregorian, calendar was adopted by most of the Roman Catholic countries in 1582, by the Protestants of Germany and Switzerland in 1700, in Great Britain in 1752 and in Ireland in 1782. In short, the present calendar is a 753 B. C. model, with 1582 A. D. improvements.

So it is that the National Academy of Sciences in February, 1928, adopted a resolution favoring a change "looking to the establishment of 13 months per year," and that the National Association of Cost Accountants has endorsed that plan. Of 600 letters from leading business men to George Eastman of Rochester N. Y., 93 per cent favored the 13-months proposal, while the International Association of Machinists, the Brotherhood of Railway Clerks, the Trades and Labor Council of Canada and other labor organizations have officially endorsed it. Indeed, about 60 industrial concerns in the United States now are using an auxiliary calendar of 13 periods of 28 days each for their interior accounting, among them the Western Clock Company, LaSalle, Ill., for 36 years; United Press Association, 21 years; H. Foerderer, Inc., Philadelphia, 28 years, and others running down through long periods of usage to the present.

The MANUFACTURERS RECORD is particularly opposed to visionary, impracticable schemes, such as are suggested almost daily on a thousand and one lines; it is equally in favor of progress and modernization on strictly practical lines, and it regards the proposed change in the calendar as practical and necessary. Naturally, the readjustment of dates and days and of contracts, to conform to the new arrangement, would involve some meed of work and inconvenience and of expense; but the beneficial result for the present and succeeding generations would transpose this expense into a remunerative investment.

American industry and business well may hope that this resolution will be adopted and that the present or incoming President will initiate steps for such an international conference without loss of time.

## DR. MacKENZIE, ADVOCATE OF GRAPEFRUIT AND SODA FOR INFLUENZA, REPLIES TO SOME CRITICS.

A RECENT article by Dr. William A. MacKenzie, of Leesburg, Fla., setting forth some of his experience in the curing of flu by the use of grapefruit, an abundance of water, and soda, has called forth some hearty commendations, and some criticisms, from medical authorities and physicians. Copies of these letters to the MANUFACTURERS RECORD were sent to Dr. MacKenzie. One city health authority expressed the thought that the proper way for Dr. MacKenzie to have put the matter before the public was to have submitted it in detail to the Florida State Health Board, and then had the health board pass on it and pass it on to others. One man suggested that it looked more like an effort at advertising than a desire to bring important facts to the public. A few rather broad-minded men, who had known something of the situation, realized that Dr. MacKenzie had been proclaiming this doctrine ever since the last flu epidemic.

A leading business man of Washington in the course of a letter to this paper, referring to Dr. MacKenzie's article, said that by reason of the number of letters he had received about it, "It seems to me that most of the people in the United States must have read the MacKenzie article on the use of grapefruit as a remedy for flu." He added: "I found that doctors here generally were using this remedy, although some substitute oranges or lemons for the grapefruit."

In a letter to the MANUFACTURERS RECORD, referring to the receipt of criticisms which had been sent him, Dr. MacKenzie took notice of these comments in a rather interesting manner, and although his letter was not intended for publication we give our readers the benefit of his views. He writes:

"I received your favors of recent date with numerous enclosures, which I have answered. I am returning you a copy of my answers, with the original letters.

"Had some of these gentlemen been open-minded enough, and had they taken time enough, to try the grapefruit and soda treatment for influenza, they might have rendered a greater service to humanity than by jumping wildly into criticism. There is more philosophy in medicine than any one Horatio, of no matter what distinction, has ever dreamed of. Some of these gentlemen seem peeved because they were not the first to make a discovery, and others because I did not wait to go through a lot of red tape in presenting this treatment to the American Medical Association before giving it to the public. Had I waited, perhaps hundreds who have been saved would have died, which is nothing, of course, to preserving a routine procedure. I care nothing, however, about these criticisms, because I know positively what grapefruit and soda will do in influenza. Its test in 502 cases in 60 days convinced me, and that conviction has been strengthened by its results in many other cases since 1918.

"As to proof of my work during 1918, I respectfully refer you and my critics to G. G. Ware, president of the First National Bank of Leesburg and director in the Federal Reserve Bank of Atlanta; Hon. Nathan Mayo, Commissioner of Agriculture, Tallahassee; Gilbert D. Leach, editor of the Leesburg Commercial; P. B. Collens, editor of the Florida Agriculturist, Summerfield, Fla., and E. H. Alberson of South Lake Weir, Fla.

"I treated Mr. Ware, who had influenza and double pneumonia, and the other gentlemen were in close touch with me during my work. The Rev. Alberson's house was practically turned into a hospital, and in one of his tenement houses I treated 15 cases at one time, members of three poverty-stricken families whose beds were on the floor and who did not have the bare necessities of life. Whether or not the United States Department of Health kept records, I do not know. I was asked to engage in the emergency work incident to the treatment of influenza at a conference in Jacksonville, and I made daily reports to the State Board of Health of Florida. I am not advised as to whether or not the State Board of Health kept records.

"As to the article being an advertising stunt, I am at a loss to know what I would want to advertise. I am an ethical physician who has retired, who is well known in the state, who has nothing to sell and who has never made a

single charge for treating any case since he has been in Florida. Further than that, I have no grapefruit for sale. All my groves are oranges. Had I wanted to advertise, I would have recommended orange juice. You will remember, no doubt, that you asked me for an article. I did not volunteer it. It may interest some of the critics to know that Physical Culture Magazine asked me for and paid me for an article along the same lines. I sent this article without any hope of or desire for recompense, but the editor of that magazine considered its value enough to voluntarily insist upon my accepting a check, which I, as a Scotchman could not be true to my nationality, and refuse. Other health magazines in the East have solicited me for similar papers. "I trust that you and your valuable periodical will not be crucified upon the cross of red-taped medical ethics."

In a second letter Dr. MacKenzie writes:

"I was rather amused at the copy of letter from the Bureau of Investigation of the American Medical Association. They call attention to the fact that there are other things which produce more alkaline residue than grapefruit, and they head the list with dried lima beans. I can imagine the delight with which the fevered patient suffering from influenza would enjoy liberal doses of dried lima beans every two or three hours, especially if the patient happened to be an ex-soldier. \* \* \* In looking over the list of substitutes for grapefruit, I am convinced that spinach, parsnips, carrots, rutabago, potatoes and sweet potatoes would be somewhat unwieldy, and not nearly as helpful, if prescribed for an influenza patient. The proof of the pudding is in the eating, and when one of these gentlemen shows me a record as free from fatalities as I am prepared to swear to, then I am prepared to listen. Until then, I will consider them modern Don Quixotes tilting at windmills."

## STATE COMPETITION WITH PRIVATE BUSINESS.

COINCIDENTLY with nationwide objection in American business circles and in the citizenry to business operations of a non-governmental nature by the Federal Government appears a report that Texas contemplates the establishment of state owned and operated cement plants, the cement to be made by convicts and used for state roads. South Dakota already has put this plan into practice and other States are understood to have it under consideration.

Adequate consideration of this plan, we feel, will prove convincing that it is "penny wise and pound foolish." In the first place, any government competition, Federal or state, with private business is unfair and contrary to the principles on which the Federal and state governments are established. Not only is this the theory on which all government is founded, but also it is a concrete fact, as demonstrated in every instance in which it is practiced. Government operation of private-business enterprises may seem superficially to be of profit to the people, but in the long run and in the last analysis it is actually expensive.

For Texas, this government venture into private business would be particularly unfortunate, especially at this period in the State's development. For one thing, the incursion into private business fields would be discouraging to business men both in the State and outside, who, while prepared for private business rivalry, fear and resent competition by any government with millions of dollars behind it and with opportunities for unfair and oppressive competition which private business is not permitted, and does not wish, to practice. Not only would private business in Texas and outside be discouraged by this particular government venture, but also would regard it as an opening wedge—a forerunner of other competition by the State with private business concerns. To the cement industry of the country, Texas would become unpopular as an unfair and oppressive competitor; to other industries, it would become a bogle to be shunned, lest they, too, be placed in an unfortunate business position.



# Governor Byrd in Role of State Business Agent Speeds Virginia's Industrial Expansion.

By CARROLL E. WILLIAMS.

"**V**IRGINIA'S greatest single opportunity today is to attract new capital for investment in Virginia and to attract new desirable residents. We are on the threshold of a great industrial expansion throughout this state; already much has been accomplished in this direction and there are definite indications that in the immediate future industrial activity will go forward at a pace never before equalled."

This is the statement of Governor Harry Flood Byrd of Virginia who has played such a prominent part in launching the state on the expansion program now evidenced. Last year when plans were announced by several of the large producers of rayon for establishing plants in the South, and when they were casting about for sites here and there, studying conditions and making exhaustive surveys Governor Byrd promptly got in touch with the heads of the companies by wire and arranged to see the boards of directors in New York and Cleveland. Supplied with accurate data on the state's resources and possibilities he assumed the role of business agent for the entire state—without exploiting in any way the advantages of one section over another—and so forcibly put forth Virginia's opportunities for industrial development that the Industrial Rayon Corporation of Cleveland selected a site at Covington for a \$5,000,000 plant and the Du Pont Rayon Company purchased a tract near Richmond for a huge plant using the viscose process. What is more, when the Du Pont company some months thereafter acquired the right to manufacture rayon by a new French cellulose-acetate process it acquired a site at Waynesboro, and this plant is now well advanced towards completion. The companies engineers naturally made careful surveys of conditions before putting their O. K.'s on the plans, but Governor Byrd made it perfectly clear that Virginia citizens wanted the plants, that its taxes were comparatively low and were likely to remain so and that helpful legislation rather than restrictive and hurtful laws would be enacted by the state's legislators.

## Concrete Plan for Fostering Agricultural and Industrial Development.

- 1—To expand the output of industrial plants in Virginia to a total valuation of \$1,000,000,000 by January 1, 1930. That this goal is not a vain hope is indicated by figures just compiled by the Department of Labor which shows that in 1926 the value of industrial output was \$667,850,000 and in 1927 was \$782,425,000—an increase of over \$114,575,000. In 1926 the capital invested in Virginia industries was \$468,316,000; in 1927 it totaled \$733,482,000. In one year 36,662 additional workers were placed on industrial payrolls, the survey shows.
- 2—To establish the Shenandoah National Park as a playground for the East; develop Hampton Roads; and utilize the water power now going to waste.
- 3—To invite and encourage new residents, and stimulate tourist travel by building improved highways, and attract newcomers by advertising.
- 4—To make the state self-sustaining in the production of goods. In this connection the Governor pointed out that the state sends out annually \$7,000,000 for butter, and its State institutions purchase 90 per cent Western flour.
- 5—To lower the tax burden by efficient management and to so liberalize tax laws as to encourage industrial development.
- 6—To apply the proceeds of the stream of gold created by this development to continued tax reduction; give Virginia schools and colleges the funds necessary to make the state known for its educational facilities; build roads essential for quick transportation; preserve the health of the people; enforce the laws and provide adequately those functions necessary to peace, prosperity and happiness.

"The South is being pointed to today, as the West was in a former period—as the land of promise," declared Governor Byrd. "New life and new capital are flowing South in constantly increasing streams. Northern cotton mills are being closed and established in the South. Silk mills, furniture factories, nitrate plants and various industries are springing up throughout the section because of its superior industrial facilities and advantages.

"Virginia is most advantageously situated for a great industrial development. Our climate is without the disadvantages of the far north or the far south, and with the advantages of both. We are close to the great markets of the East. Our factories are close to raw materials and to coal mines. We have tremendous potentialities for water power development. Railroad facilities are ample; we have the seaport at Hampton Roads for exports. Labor is plentiful and intelligent. Fundamental conditions in Virginia warrant a great industrial development."

But Governor Byrd is aware of the keen competition among the states in their efforts to bring in outside capital and he sounds a note of caution, declaring that "if Virginia is to meet this competition we must be alert to changing conditions and bend every effort to present the most favorable conditions for developments."

It therefore is but natural that Governor Byrd has mapped out a careful program, which is briefly summarized herewith, for the general upbuilding of the state before his term ends.

"We are facing the future with a confident hope," declared Governor Byrd. "We are making Virginia ready for a prosperity that will give her the means to minister adequately to the health and vigor of her institutional life. A spirit of progress has taken possession of all branches of the government; it has inspired the fine work of the General Assembly; it has brought the support of men and women from every part of the state and it has created a contagion of co-operation for the progress and honor of Virginia."

## Wire Mill in Operation at Mobile.

Pushed rapidly to completion in order to handle much of the great electrical construction planned for the South this year, the wire mill of the Southern States Cable Company at Mobile, Ala., recently started production on the first order for electrical wire to be made in the far South. The Southern States Cable Company is a division of the General Cable Corporation, which has 18 plants in 16 cities, including one in Canada, and the Mobile plant is the first wire mill south of Baltimore.

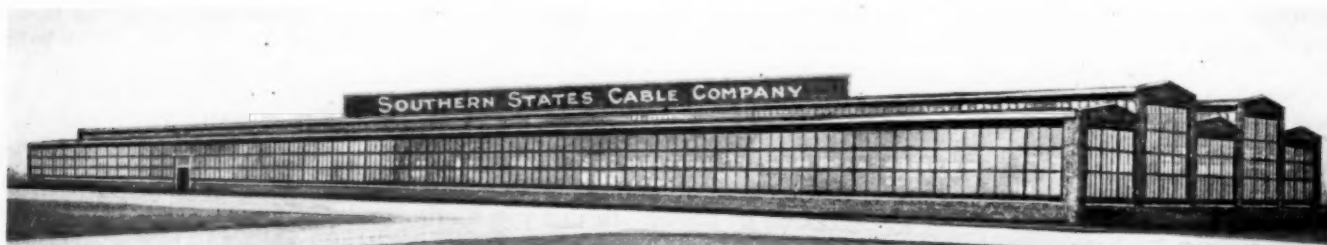
The new plant is described as a fine example of latest practices in industrial construction. The foundation is of concrete, with steel frame, and brick walls. A very large ratio of wall area is of glass, and this with the glass in the several monitors assures unusually good lighting and working conditions. The building is 540 feet long, and 120 feet wide, giving, with certain mezzanine construction, a total floor area of 74,000 square feet.

At the outset, the "OK" brand of weatherproof wire and also bare solid and stranded wire will be manufactured in this mill. Modern wire drawing, stranding, braiding and saturating equipment has been installed, all motor driven, power being supplied by the Alabama Power Company to the company's own transformer house for stepping down to 440 and 110 volts for plant use. Part of the new building will be

used as a warehouse in which will be maintained stocks of insulated wires, cables and cords, to provide prompt service to customers. This stock includes the products of other divisions of General Cable Corporation, such as Dudlo Manufacturing Company division, Fort Wayne, Ind.; Rome Wire Company division, Rome, N. Y.; Safety Cable Company division, New York, and Standard Underground Cable Company division, Pittsburgh, Pa. The Southern States Cable Corporation will have direct sales representatives in Charlotte, Atlanta, Birmingham and Dallas.

The general contractors for the building were Doullut and Ewin, Mobile. Major steel requirements were furnished by Ingalls Iron Works of Birmingham, and the steel roof decks and sash were furnished and erected by Truscon Steel Company, Youngstown. Smith-Murray Company of Syracuse had the roof-covering contract. The sprinkler system was installed by Globe Sprinkler Company. The electrical contract was handled by Cox Electrical Engineering and Supply Company, Mobile.

Harry Parker of the Rome division has been appointed manager and secretary of Southern States Cable Corporation; R. M. Roberts, formerly of the Rome division, is assistant treasurer and is in charge of sales work at the mill, and H. P. Hitchcock has been appointed auditor.



FIRST WIRE MILL TO BE ERECTED SOUTH OF BALTIMORE.

### To Promote Cotton Textile Exports.

Greater concentration in developing and directing exports of cotton textiles in specific markets, either through ordinary processes of joint representation or under the provisions of the Webb-Pomerene Act, is suggested by Walker D. Hines, president of the Cotton Textile Institute, Inc., in announcing the results of a special study just concluded under his direction. Concentration, he says, would strengthen the American export trade in cotton goods in five ways: (1) Eliminate unnecessary cut-price competition among our own exporters; (2) promote more comprehensive research and planning; (3) utilize the restricted personnel which has necessary training and experience; (4) eliminate unnecessary cost; (5) attract the best type of banking accommodation.

In describing the methods of combination available, Mr. Hines states:

"It is noteworthy that, while many mill interests lament the restrictions of our Anti-Trust Act on the handling of domestic business, those mills have not yet availed themselves of the opportunities afforded by the Webb-Pomerene Act to be relieved of those restrictions in handling export business. The very substantial volume of our cotton textile exports demonstrates that we are in position, as to many types of goods as well as yarns, to meet successful outside competition in various parts of the world. We are in position to do this to an increasing extent, provided our export processes are sufficiently improved."

Mr. Hines adds that there are comparatively few thoroughly trained and capable executives, salesmen and agents at present connected with the cotton goods export trade at

headquarters and traveling to and located in foreign markets, and that it is necessary to have this type of personnel with any important organization or combination formed for the purpose of handling export trade in a more effective and orderly manner.

### Census Cottonseed Crushing Industry.

Products valued at \$275,650,510 were made from cottonseed during the season 1926-1927, states the Department of Commerce, these including:

Product	Amount	Value
Crude oil .....	1,887,910,155 lbs.	\$142,242,000
Cake and meal .....	2,840,084 tons	72,476,000
Hulls .....	1,854,389 tons	8,882,000
Linters .....	1,041,864 bales	16,684,000
Hull fibre .....	101,677 bales	1,057,438
Motes and grabbots .....	44,748 bales	332,146
		<hr/> \$241,673,584

The foregoing does not include refined oil. It covers the output of 570 mills, which crushed 6,305,775 tons of cottonseed during the season. This number includes 24 mills whose major products are other than cottonseed products, or which not only crush the seed but refine the oil. Of the 546 classified under "Cottonseed Products"—mills that do not refine the oil and whose major production comes from cottonseed—174 were in Texas, 54 in Georgia, 53 in North Carolina, 45 in Oklahoma, 44 in Mississippi, 41 in South Carolina, 35 in Alabama, 30 in Arkansas, 22 in Louisiana, 21 in Tennessee, 10 in California, 6 in Arizona, and 11 scattered over Florida, Illinois, Kentucky, Missouri, New Mexico and Virginia.



## Annual Naval Stores Conference Reveals Progress in Modernizing South's Oldest Chemical Industry.

The Sixth Annual Get-Together Conference of the Naval Stores Industry and the Pine Institute of America, which opened this week in Jacksonville, Fla., for a three day session, brought out evidence of progress in modernizing the oldest chemical industry of the South. E. R. Weidlein, Director, Mellon Institute of Industrial Research, told of the developments resulting or expected to result from chemical research into the uses of rosin and turpentine. Referring to rosin, he told how its principal market, the soap factories, had been invaded by substitutes, and described progress made in the use of rosin for soapmaking in order to meet this competition. Similarly with turpentine, used as a paint thinner, and largely displaced by petroleum substitutes, which, he said, were inferior to turpentine. He continued:

"Looking toward the future the naval stores operator, factor, dealer, consumer, etc., must realize they are dealing not merely with naval stores but valuable chemical raw materials which in reality should be termed pine tree chemicals. The operator must realize that all business is undergoing changes and that his must do likewise. He must learn to apply the principles of chemical engineering to his methods of production, in order that he may lower production costs and at the same time produce more uniform products."

### **Greater Research Would Open New Sources of Wealth.**

The immense unknown field awaiting exploration by research workers, not only in the rosin and turpentine but as well in the wood of the trees, the lignin and the cellulose, was described also by Dr. Charles H. Herty, Consultant, New York City, who said:

"While much is known of the chemistry of cellulose, we are not yet in possession of the full knowledge of the structure of its molecule. Only when this is known can we look forward with confidence to that great development of new industries based on cellulose as a raw material, just as was characteristic of the coal-tar chemical industry when once the structural formulas of benzene became known.

"With lignin the problem is even more unsolved. There is no definite idea today of the composition of this material, whose annual production from the forests and the farms of the United States can be conservatively estimated at not less than 60,000,000 tons."

Dr. Herty emphasized also the necessity for cultivating forests in the South, and as illustrating the opportunity offered by the Southern pine belt for reforestation, said that:

"The spruce at 30 years of age grows only 0.4 ton per acre per year, on average soil. On the other hand, longleaf pine grows 1.7 tons per annum, while that most valuable of all trees, the slash pine, grows 2.93 tons per acre, over seven times the rate of growth of Canadian spruce. Can any thoughtful man imagine for a moment that the scales do not tip in favor of the pine trees of the South, which possess the added advantage of affording after ten to twelve years of growth an annual income from naval stores production to offset the capital investment during the growth period? This is a factor too often overlooked in reforestation discussions."

William J. Hough was another speaker who stressed the need for more research into the nature of rosin and turpentine. He thought the work being done at the Mellon Institute was excellent, but that sufficient funds had not yet been provided for a broad-gauged research campaign that would include fundamental investigations along with the search for immediate uses for the products.

### **Forest Tax System Should Be Revised.**

The need for thoroughgoing revision of forest tax laws, in order to lighten the burden on owners of cut-over lands during the growing period of the new crop, was urged by

J. K. Johnson, forester of the Great Southern Lumber Co., Bogalusa, La. Some such modification has been made in Louisiana, but "is so written, however, that it is most times quite difficult to put into practice; yet it is unquestionably a step in the right direction," said Mr. Johnson.

Too frequently, Mr. Johnson pointed out, the alternative to revision is for the state, or its counties, to have revert to them vast tracts of wholly denuded, perfectly useless land; and land which, where hilly, is subject to destructive erosion. Such land not only yields no revenue, but may be so despoiled of its topsoil, as to render it forever unfit for use. Revision of the tax system to reduce the tax burden on cut-over land during the growing period would encourage the payment of a small tax until the new crop reaches productive age.

A four-year experiment on a 760-acre tract of cut-over long leaf yellow pine land near Pensacola was described by F. F. Bingham, of the Southern States Lumber Co. Mr. Bingham fenced it and began experiments in reforesting the bare spots, turpentine existing trees, and raising stock as a supplementary line. On this tract neither artificial reseeding nor the setting out of nursery seedlings was necessary, as seed trees were near enough to all bare spots to seed them naturally.

For 1925, '26, '27 his average burned-over was only 8 per cent, while to date since then it has been only 1 per cent. Cost of fire protection, he finds, is justly chargeable to, and is taken care of by, stock raising.

In turpentine, his chipping methods are based on the best French practice, only 15 to 18 per cent of the circumference being worked at one time and that part being subject to a very shallow chip. Trees thus continue their growth unabated, while grade of gum is much higher than by old methods and is thought to be equal to the best French grades. Little skill is required by the operatives, unit cost has been reduced year by year, and the timber can be worked indefinitely, or practically until it reaches the slow-growing stage, when it should be marketed. Mr. Bingham's conclusion is that in view of the natural timber growth under protection, natural increases in stock, enhancement in value of land, timber, naval stores, beef, hides, mutton and wool values, there is very little likelihood of loss on such a tract under proper management.

A paper full of exact technical data on yields from different methods of chipping was presented by Lenthall Wyman, Government Forester in charge of the Southern Forest Experiment Station at Starke, Fla. Mr. Wyman has spent several years in careful, scientific tests of various methods of forest operations. He reported yields of 308 barrels from narrow chipping, as contrasted with 202 barrels from heavy chipping, over the same period of time and on a comparable stand. His conclusion was that:

"To sum up, by selecting their timber, growing the right sort of trees and working them conservatively operators may expect high gum yields and consequent low operating cost."

### **Turpentine Farm Management.**

"How to Manage Turpentine Farms for Larger Returns and Over Longer Periods" was the question discussed by V. G. Phillips after 15 years experience in demonstrating a practical answer to the question, a paper similar to Mr. Wyman's in that it went into the technical features of the business.

Mr. Phillips divided his answer into two main parts; first, the necessity for all turpentine operators to cooperate in order

to stabilize the industry, reduce destructive competition and eliminate much of the hazard that has made so many bankers and capitalists unwilling to risk money on turpentine ventures. The very fact that turpentine has a reputation for considerable hazard, he said, has made it impossible at times for some able managers to get the financial backing that would have saved them from failure.

Next to sufficient capital, timber selection is the most vital single factor, he said; and in this item, the price to be paid is all-important. With a suitable tract acquired and ample financial backing to swing it, he explained that a good many factors endanger the success of the venture, among the worst being severe storms, fires, and drouths.

#### Stabilization Needed.

Tracing the depressing effect that overproduction has had upon prices of naval stores during many years past, William B. Carr, Savannah, Ga., urged stabilization of the industry at a level that would assure a profit. This level, he estimated, is about 500,000 barrels, for whenever the production goes above that figure, the price falls. The way to do this, he said, is "by not working your timber—either fee or leased lands—faster than it is growing. The ideal operator of the future will be one that owns his timber in fee, or has revolving leases over long periods of years. Assured of adequate timber growing lands the ideal operator will then turn his attention toward conservative practices, methods which will increase the yield per crop, so it is to his advantage in the end, whether he leases or owns.

Very gratifying progress in the rejuvenation of an old industry was seen by that veteran in the U. S. forest service, Dr. Austin Cary, who said:

"Little doubt many industries in this country have taken hold of themselves in the way of readjustment and improvement, but if any in the course of this process was ever in a more fluid, formative, promising condition than the producing naval stores industry of today, I certainly have had no knowledge of it. The str and ferment takes various directions, improvement in operating methods at all points, efforts at organization in the marketing field, research with a view to developing new markets, research again with the hope of understanding and taking advantage of the gum-producing function of the tree, extension of land ownership and better care and management of the forests. This covers the whole ground if my own comprehension grasps that."

And Dr. Eloise Gerry, senior microscopist of the U. S. Forest Products Laboratory, said that the state of the industry today "makes a sharp contrast to the gloomy picture that was being painted not many years ago."

"The long leaf and slash pine second growth forests of the South offer by far the best opportunity for the practice of profitable forestry by private enterprise," said Captain I. F. Eldredge, Manager, Suwanee Forest, and he continued:

"These two trees furnish naval stores, lumber that is always in demand, poles and piles now greatly desired by creosoting companies throughout the East, railroad ties for treatment, pulp wood, and from their stumps and dead wood retort wood from which wood naval stores are made. No other trees in this country enter into so many markets.

"Then too these two pines lend themselves admirably to the forester's care and control. They are both remarkably hardy and thrifty, standing severe punishment from man and nature. They both grow on soil of little or no worth for agriculture and under the proper treatment and in their proper range they grow rapidly and certainly to a quick maturity. With protection from fire these pines reforest themselves bountifully, quickly and with absolute certainty."

Captain Eldredge entered into a careful outline of the methods considered most likely to produce a profit in the management of a large pine tract.

A significant feature of this address, as of the others, was the tone of confidence in the stability of a naval stores industry based upon scientific methods of forest perpetuation—a striking contrast to the attitude toward the same subject only a few years ago.

#### \$39,902,000 Value of Naval Stores Output.

Products of the naval stores industry declined 5.8 per cent during the crop year ending March 31, 1928, as compared with the preceding census year, 1925-6, according to the Department of Commerce. The value of the 1927-8 output was \$39,902,971, while that for 1925-6 was \$42,364,413. The actual production reported for the last year was 31,549,082 gallons of turpentine and 2,071,813 barrels (or 500 pounds) of rosin.

In addition, 4,390,796 gallons of turpentine and 452,167 barrels of rosin were recovered by steam-solvent and destructive distillation processes from old field stumps and down-timber. These quantities represent increases of 31.5 per cent and 39.3 per cent, respectively, as compared with the corresponding figures for the crop year 1925-6.

Georgia is the great naval stores state, having 614 of the 1149 establishments reporting. Florida has 343; Alabama 113; South Carolina 32; Mississippi 28; Louisiana 13; Texas 5 and North Carolina 1.

The following summary of the industry is taken from the Department of Commerce report:

#### SUMMARY FOR THE GUM TURPENTINE AND ROSIN INDUSTRY, CROP YEARS ENDED MARCH 31, 1928 AND 1926.

	1927-28	1925-26	Per cent of increase or decrease (—)
Number of establishments...	1,149	1,007	14.1
Wage earners (average for the year) .....	37,913	29,413	28.9
Wages .....	\$16,953,054	\$15,190,076	11.6
Cost of materials, plant supplies, fuel and purchased power, total .....	\$12,173,304	\$11,887,395	2.4
Materials and supplies..	\$11,708,436	.....	...
Fuel and power.....	464,958	.....	...
Value added by manufacture..	\$27,729,577	\$30,477,018	—9.0
Horsepower .....	3,211	3,138	2.3
Value of products.....	\$39,902,971	\$42,364,413	—5.8

#### \$1,000,000 Scottish Rite Temple for Baltimore.

Plans are expected to be completed in April for a new \$1,000,000 Scottish Rite Temple to be erected at Charles Street avenue and 39th street, Baltimore, for the Scottish Rite Holding Co., of which J. Edw. Richardson is president. Clyde N.



NEW TEMPLE TO BE ERECTED.

and Nelson Friz, Baltimore, are the architects and John Russell Pope, New York, is consulting architect. C. L. Reeder is the mechanical engineer and C. H. Osborne, structural engineer, both of Baltimore.

#### St. Louis Bank Merger Involves \$213,000,000 Resources.

St. Louis, Mo.—Directors of the First National Bank and the Liberty Central Trust Co. have approved the merger of the two institutions into a new organization to be known as the First National Bank. Total resources of the First National, as of December 31, were approximately \$160,000,000 and those of the Liberty Central Trust Co., \$53,000,000. This is the second merger in which the First National Bank has been involved recently, the institution having absorbed the International Bank several months ago.



# Organized Industrial Development.

By DR. CHARLES H. HERTY, New York.

"Away with bally-hoo; give us the facts." This is the attitude of those industrialists who in the expansion of their work are today seeking new factory locations or branch sites nearer to shipping points for raw materials or consumers' markets. This sentiment is but a reflection of the spirit of research which is rapidly permeating all lines of American life. My first contact in this new work of aiding in the industrial upbuilding of the South was formed with the Industrial Committee of Savannah, Ga., and there I found so unique and so efficient an organization that our

experience may serve in a general way as a guide to wise development in many other communities.

For many years, Savannah has been known as a delightful city to visit. Its population has grown to over 100,000 persons who have little realized that there was steadily growing up a strong industrial life, backed by conditions of climate, situation, transportation and a certain esprit de corps which constitute potentialities for far greater development. Recently, however, a group of thoughtful, far-visioned citizens felt the need of an organization which would unify all those interests contributing to the city's advancement. They first organized an Industrial Committee, consisting of the following: H. C. Foss, chairman, president of the Savannah Electric and Power Company, representing the citizens; Gordon Saussy, Mayor, representing the municipality; Mills B. Lane, representing the Clearing House; Henry Blun, representing the Board of Trade; L. L. McDonald, representing the Junior Chamber of Commerce; C. J. Hunter, representing the Real Estate Exchange. This committee determined to focus its work in the office of an Industrial Commissioner, who should devote his entire time to the following program: (a) Compile every type of fact about Savannah's industrial life, and its future possibilities; (b) determine from these facts what types of industries would most naturally prosper in such a community; and (c) discuss the advantages which Savannah could offer quietly and frankly with industrialists seeking locations. Funds for carrying on the work for a period of three years were contributed in advance by the various organizations, so that the committee does not have to trouble itself about pledges or collections.

It was my good fortune to become associated with the committee as consultant. Our first work was the selection of the Industrial Commissioner, and the unanimous choice was George M. Rommel of Pleasantville, N. Y., who had become familiar with the problems of the South through surveys made for the Department of Agriculture and the Department of Commerce. He has taken vigorous hold of his work. That this movement has strongly commended itself to the citizens of Savannah was attested by the presence of nearly 600 business men at a luncheon given by the Board of Trade, for which no intensive drive for attendance had been made.

The railroads, entering into Savannah in a fan-like structure, and the steamship companies, leading to all ports of the world, have joined heartily in the movement. Proof of this is shown by the recent act of the steamship companies in

As an illustration of the kind of industrial research which fortunately is becoming somewhat more common in the South, the accompanying statement by Dr. Herty on the development at Savannah, Ga., will prove of interest. Such activity is not intended or expected to produce immediate or temporary results, but is designed for a permanent type of progress based on the natural, developed and potential resources of the community under consideration.—  
Editor MANUFACTURERS RECORD.

absorbing switching charges, thereby facilitating freight transport. The bankers on the committee see to it that no fly-by-night prospects are encouraged to locate permanently. The real estate member makes available accurate information about locations. All the members keep their respective bodies informed of real progress, but the committee also acts as a buffer between the Industrial Commissioner and the various civic organizations, thus leaving him undisturbed by local political conditions or uncertain wisps of temporary public opinion. In other words,

he is left free to work uninterruptedly for the industrial upbuilding of the city. Nor does the work of the committee interfere in the slightest with the normal functions of the existing trade bodies. On the contrary, there is the closest cooperation and mutual helpfulness.

These men of the Industrial Committee are not unconscious of the tremendous possibilities of trade development with South and Central America. They have a right to look forward to the growth of a great port of entry, and the time will come when much raw material from our southerly neighbors will enter the doors of factories in Savannah for manufacture into finished products, thence to be distributed by its rail and steamship lines to the entire Eastern, Central and Southern markets of the United States.

It is well understood by all that such work does not bring immediate results; that time is required for all types of research; but there is also a feeling of genuine confidence that upon the solid foundation now being laid there will be built an industrial structure which will be lasting, and without sacrificing any of the city's greatest heritage, for Savannah will continue to be a good place to visit and a better place to stay, a place where one can make the most of life.

## To Reduce Lumber Seasoning Losses.

A group of the foremost wood fabricators in the country have completed a survey covering practices of their industry in seasoning, handling, and storing lumber, reports the Department of Commerce. Results of this survey have been incorporated in an exhaustive report now ready for distribution.

Headed by B. S. Warren, of Berkey & Gay Furniture Company, Grand Rapids, Mich., this group has co-operated in the survey with the Department of Commerce through its National Committee on Wood Utilization, in an effort to reduce the millions of dollars lost every year through careless or inefficient systems of seasoning wood, by acquainting the woodworking industries with methods actually being followed in a large number of individual plants. Besides Mr. Warren, the subcommittee includes W. C. Hobart, Buffelen Lumber & Manufacturing Company, Tacoma, Wash.; L. A. McDowell, Murray Corporation of America, Detroit, Mich.; W. B. Swift, International Harvester Company, Chicago, Ill.; and Walker L. Wellford, Chickasaw Wood Products Company, Memphis, Tennessee.

## Building 25-Foot Harbor at Mouth of Brazos River, Texas.

Work of developing the Freeport (Texas) Harbor is being pushed by the Federal government and the Brazos River Harbor Navigation District; the project involves the digging of a new channel for the Brazos River. The new channel, commonly called the diversion channel, will be approximately 6.5 miles long and will carry the flood waters of the Brazos river through a new mouth into the Gulf of Mexico. The diversion channel takes off from the old channel about 7 miles from the end of the jetties. A dam will be built from the beginning of the diversion channel across the former channel, thus preventing any more flood water from coming into Freeport Harbor and thereby keeping the old channel free from silt and converting it into an estuary of the Gulf, suitable for harbor purposes and being about 6 miles long.

The Freeport Sulphur Company has been the principal user of the harbor for many years. The prevailing depth is 18 feet; when the project under way is completed the depth will be 25 feet. An outstanding feature is the erection of a highway bridge over dry land, and the diversion channel will be excavated under the bridge after it is built.

Plans for the diversion channel were prepared by the J. F. Coleman Engineering Co., New Orleans, consulting engineers for the navigation district. The diversion channel, being built under the supervision of Major Milo P. Fox, United States District Engineer Officer, Galveston, Texas, involves the moving of 5,500,000 cubic yards of earth, and the levees on each side will be built from the spoil taken from the new channel. It is expected as a result of construction of the dam



BRIDGE OVER DRY LAND A FEATURE.

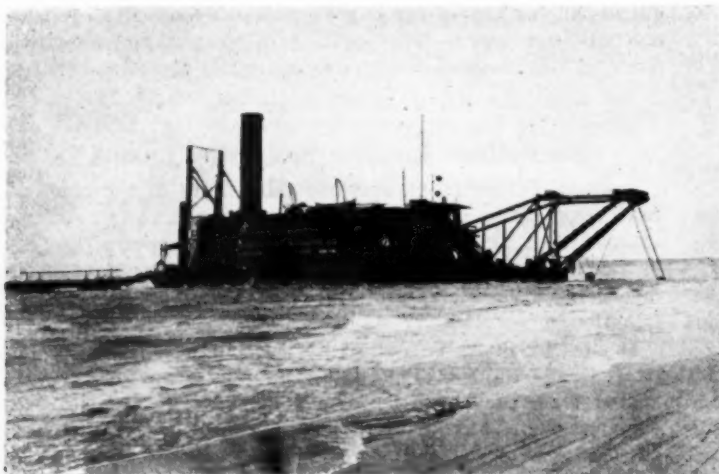
View of center span, 250 feet long, under which diversion channel will be dredged upon completion of structure.

that the maintenance of navigation into and out of the estuary will be simple and inexpensive.

Plans for the highway bridge, prepared by Harrington, Howard & Ash, engineers, Kansas City, Mo., gave the approval of the Texas State Highway Department, which will take over the operation and maintenance of the structure after it is completed. General contract for the bridge was let to the Tellepsen Construction Co., Houston, Texas, in May, 1928, and the structure will be completed early this year.

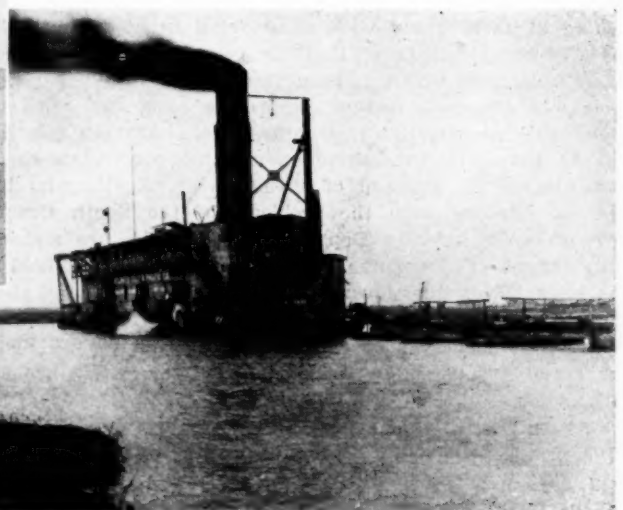
The Atlantic, Gulf & Pacific Dredging Co., New York and Houston, received contract for constructing the diversion channel last July, its bid being \$.0815 per cubic yard. The company's hydraulic dredge Geo. W. Catt is engaged in dredging operations which should insure completion of the Freeport harbor to a depth of 25 feet by early fall of 1929.

The navigation and canal commissioners believe there will be about \$600,000 of the \$1,000,000 bond issue left for further improvement of the harbor, and at the proper time a proposition will be submitted to the Federal Government to use this money in deepening the harbor to 30 feet. The management of the Brazos River Harbor Navigation District is in the hands of three navigation and canal commissioners appointed by the commission's court of Brazoria county. The office of



Stern view of Atlantic, Gulf & Pacific dredge, Geo. W. Catt, operating in the diversion channel.

A 27-inch suction dredge of the Atlantic, Gulf & Pacific Co., starting work on the diversion channel at the Gulf of Mexico.







CONSTRUCTION OPERATIONS IN CONNECTION WITH ERECTION OF BRAZOS RIVER DIVERSION CHANNEL BRIDGE.

Two crawler-type Industrial cranes are utilized for a wide variety of work by the Tellepsen Construction Co., general contractors, Houston.

the Navigation District is at Freeport. Edward C. Tobey is chairman, George E. Badge, Brazoria, Texas, is secretary, and Louis J. Wilson, Angleton, Texas, is the third member of the commission.

#### **\$1,565,000 Low Bid on New Orleans Auditorium.**

New Orleans, La.—On a joint bid of \$1,565,000, Caldwell Brothers and H. W. Bond & Bro., both of New Orleans, presented the lowest estimate for the construction of the new municipal auditorium here, which will cost about \$2,000,000. The American Elevator & Machine Co., Inc., of Louisville, Ky., submitted the lowest bid at \$14,887 for the installation of elevators and the Grinnell Co., Inc., of Providence, R. I., at \$22,549, for a sprinkler system. Favrot & Livaudais, Ltd., are the architects and Sam Stone, Jr., & Co., consulting architects, both of New Orleans. Leigh Carroll is chairman of the auditorium commission.

#### **New Refractories Company Consolidates Six Properties.**

The consolidation of six leading companies in the fire brick and refractories manufacturing and selling trade, owning 15 plants in Pennsylvania, Ohio, Kentucky and Missouri, has been announced. The properties will be consolidated under the name of the North American Refractories Co., which was incorporated in Delaware and is said to be the third largest corporation of its kind in the United States.

Units to be acquired by the new company include the Ashland Fire Brick Co., of Ashland, Ky.; Crescent Refractories Company, Curwensville, Pa.; Dover Fire Brick Co., Cleveland, O.; Elk Fire Brick Co., St. Marys, Pa.; Farber Fire Brick Co., Farber, Mo., and the Queen's Run Refractories Co., Inc., of Lock Haven, Pa. The capacity of these companies is estimated at 155,000,000 brick annually. Officers of the North American Refractories Co. include John D. Ramsay, president; E. M. Weinfurter, first vice-president, while H. E. Stuhler, J. M. McKinley, E. H. Gartrell, Harry A. Sletcher and John H. Cavender are vice-presidents. In addition to the officers, directors of the corporation include Frank H. Deal, Alfred S. Zopfi, Wm. K. Brownlee, James B. Graham, Wm. G. Bauer, and Henry Lockhart, Jr., and Charles H. Marvin of Blair & Co., Inc., New York.

#### **\$14,000,000 Budget of St. Louis Utility.**

The 1929 budget of the Union Electric Light & Power Co., St. Louis, contemplates the expenditure of \$14,000,000 in the St. Louis area, of which \$8,700,000 will be expended in Missouri, \$5,000,000 in Illinois and \$300,000 in Iowa. These figures were incorporated in a budget of \$76,894,000 approved by directors of the North American Co., New York, of which the Union Electric Light & Power Co. is a subsidiary. Improvements will include the installation of a new 75,000-kilowatt generator in the Cahokia plant and the removal of a 35,000-kilowatt unit from that plant to Venice, Ill. These two items, with the raising of levees at the Cahokia plant, call for an expenditure of \$2,750,000, while \$100,000 will be expended for the construction of new transmission cables from the Cahokia plant under the Mississippi River, and \$200,000 for new transmission lines from the Keokuk dam into the district supplied by the company, which extends from Burlington, Iowa, to southern Missouri. An expenditure of \$800,000 will be made by the St. Louis County Gas Co., also controlled by the North American Co.

#### **Coal Mine Equipment Exposition.**

The manufacturing division of the American Mining Congress will hold its sixth annual convention of practical coal operating men and national exposition of coal mine equipment at Cincinnati, May 13-17. Paul Weir of Chicago is chairman of the program committee, and L. W. Shugg of the General Electric Company, Schenectady, N. Y., will serve as director of exhibits. H. A. Buzby of the Keystone Lubricating Company, Philadelphia, Pa., chairman of the board of the manufacturers division, is actively participating in the arrangements. The mining exhibit will be held in the Music Hall at Cincinnati.

#### **\$500,000 Library Projected for University of Richmond.**

Richmond, Va.—At the semi-annual meeting of the board of trustees of the University of Richmond, Dr. F. W. Boatwright, president of the University, recommended the erection of a library building to cost not less than \$500,000. This is expected to be acted upon by the trustees at their meeting in June.

## New Records in Chattanooga Last Year.

**\$450,000,000 IN BANK CLEARINGS—CONSTRUCTION PERMITS FOR METROPOLITAN AREA EXCEED \$6,000,000.**

[Special Correspondence Manufacturers Record.]

Chattanooga, Tenn., February 16.

A review of business operations in Chattanooga during 1928 prepared by the Publicity Department of the Chattanooga Chamber of Commerce, indicates that local business established new records in the 12-month period. Bank clearings not only exceeded those for the preceding year, but broke all previous records in the history of the city. Building operations did not attain proportions suggestive of a boom, but by a sustained volume of construction throughout the year, the value of operations will compare with the best of previous years.

Expansion of the city's commercial interests kept pace with other phases of its growth, the year recently closed witnessing the organization of a number of enterprises expected to play an important part in Chattanooga's development. The outlook for 1929 is reassuring, as conditions would seem to favor an expansion of activities rather than a contraction.

Completion of the Bachman twin-tube tunnel under Missionary ridge, built at a cost of \$450,000, was probably the major achievement of 1928, inasmuch as this tunnel opens up a large residential section adjoining the city limits on

Hospital, \$250,000; State Theater, \$140,000; Hamilton Bank branch building, \$150,000; First National Bank branch, \$60,000; First Baptist Church addition, \$200,000; Medical Arts Building, \$500,000; Fort Wood Apartments, \$150,000, and three other apartment buildings costing about \$240,000 in the aggregate.

The City Water Co. built 12 miles of new mains in 1928, bringing its water main mileage to 427, and made new water connections at a monthly average of 125. Additional telephone installations averaged 110 monthly and the Chattanooga Gas Co. made 807 new connections and installed more



New Home of American Trust & Banking Company.

the east and provides an important highway connection between sections north and south of Chattanooga. Charters were granted during the year to 148 new corporations, with amendments to existing charters, representing a net gain in capital of \$9,000,000, exclusive of \$2,500,000 new capital authorized by the local banks. Building permits issued in the city represent a construction cost of \$3,500,000, while suburban permits are estimated at \$3,000,000.

An expenditure of \$2,000,000 was made by the Southern Bell Telephone Co. for a new building and equipment and the American Trust & Banking Co. completed a building at a cost of \$450,000. Other buildings erected include the Children's



Southern Bell Telephone Building.

than 9 miles of gas mains, while electric light connections averaged 125 a month. A number of industrial plants began operations, including two full fashioned hosiery mills. An outstanding business achievement was the acquisition by the International Combustion Engineering Corp., New York, of two of the city's largest industries—the Casey-Hedges Co. and the Walsh & Weldner Boiler Co.—while other important accomplishments involved the merger of the First National Bank and the Chattanooga Savings Bank & Trust Co. and that of the Hamilton National Bank and Hamilton Trust & Savings Bank. Increases in capital stock of these two institutions are said to comprise the largest

amount of capital Chattanooga ever contributed in any one year to its banks.

A bond issue of \$200,000 was voted by the city for the construction of a modern airport, and airmail service was inaugurated December 1 by the Interstate Air Lines, Inc., with the authority of the Federal Government. Another major civic movement begun last year contemplates the annexation of certain suburbs surrounding the city and it is expected that plans will be carried out this year.

Population of the Chattanooga metropolitan area is estimated at 153,336 and it is conservatively figured that the earnings of the people of the city, including industrial pay-



rolls, salaries, manufacturing plants, corporations and other kinds of business, dividends and interest on securities, rent from buildings and income from real estate, amount to approximately \$90,000,000 annually. Of this figure, the indus-



MEDICAL ARTS BUILDING.

trial payroll item amounts to more than \$35,000,000. Post office receipts for 1928 reached a record figure of \$804,850, while real estate transfers involved \$18,416,500. Bank clearings for the year amounted to more than \$450,000,000.

### **\$500,000,000 Appropriation Bill Passed by Senate.**

Washington, D. C.—The Appropriation Bill of the War Department, carrying a total of \$500,000,000 for military functions of the government, rivers and harbors development and inland waterways projects, was passed by the Senate. Important items in the measure contemplate the expenditure of \$50,000,000 to carry on existing river and harbor projects, \$30,800,000 for Mississippi River control work in the next fiscal year, \$10,000,000 for the Inland Waterways Corporation during the next three years and \$3,654,000 for rebuilding roads in Louisiana, Arkansas, Mississippi and Missouri, damaged in the flood of 1927.

### **To Build 5000-Barrel Oil Refinery.**

Sweetwater, Tex.—Preliminary plans for the construction of an oil refinery here of 5000 barrels daily capacity and a daily cracking capacity of 4000 barrels, have been completed by the Gulf Refining Co., Pittsburgh, Pa. The plant will be operated on West Texas crudes and is designed to secure the maximum yields of gasoline and kerosene with a small quantity of fuel oil residuum. It is expected to be ready for operation in September.

### **\$30,000,000 EXPENDITURE CONTEMPLATED.**

#### **River Front Improvement in St. Louis Calls for Reclamation of 3000 Acres for Park Estimated to Cost \$22,000,000.**

St. Louis, Mo.—Plans for the improvement of the Mississippi River front, north of the Merchants' Bridge to Chain of Rocks and south of President street to Jefferson Barracks, this city, have been tentatively approved by the City Plan Commission, the combined projects to cost approximately \$30,000,000. These plans will be incorporated in the commission's report to be submitted in April to the Board of Public Service, but it is likely that changes will be made before the report is submitted. The commission voted separately on the North Side, South Side and Kingshighway Park-to-Jefferson Barracks projects, estimating that proposed work north of the Merchants' Bridge will cost about \$22,000,000, including filling in and reclaiming 3000 acres of land for a large park.

Under the plan proposed, the city would acquire a group of several islands from the westward bend of the river extending from Chain of Rocks to the Merchants' Bridge. The river channel would be run through low land to be purchased from Illinois and the present channel converted into lagoons with outlets into the new channel. Levees would be built and the island group filled in to a height of 45 feet. An airport would be located in the east central portion of the park on an area about a mile square, and the lagoons would be used for bathing, yachting and boating. A highway to parallel the eastern boundary of the park along the river bank would connect with a proposed elevated river front road.

South Side improvements, estimated to cost \$4,000,000, contemplate a highway from President street, which connects with Broadway, south on Kosciusko street to Osage street. Paralleling the river at this point, the highway would be carried by a viaduct for a quarter of a mile over low land along the river front to the bluffs of the Mississippi and trestled from there to Bellerive Park. A yacht harbor, at first considered as part of the South Side project, will be considered by the commission separately.

A route to Jefferson Barracks, to cost about \$2,000,000 would link with the South Side improvement by way of the present viaduct over Broadway, which connects Kingshighway Park with Bellerive Park, the route to lead over Kingshighway Park to Minnesota avenue. Plans call for widening Minnesota avenue to accommodate four lines of traffic as far south as Catlan street, the route to turn east from there to Broadway and cross the River des Pere over the present bridge and a contemplated one. The highway would parallel the south bank of the River des Pere, running to the Mississippi and paralleling that stream south to Jefferson Barracks. The plan contemplates the acquisition of a large tract of wooded land between the barracks reservation and the River des Pere, and between Broadway and the Mississippi River for a public park, although the cost of the tract is not included in the estimate of the cost of the south river improvement. South of the River des Pere, the project will be located in the county.

### **Bids Invited on \$1,500,000 San Antonio Building.**

San Antonio, Tex.—Bids will be received until March 12 by J. M. Nix of this city, for the erection of a garage and office building at Navarro and College streets, to cost about \$1,500,000. The structure will be 168 by 114 feet, 18 stories, of steel frame construction, with brick and stone. The eight lower floors will be used for a garage and the ten upper floors for offices, of which there will be about 135. Henry T. Phelps is the architect and the Beretta-Stile Co., Inc., consulting engineers, both of San Antonio.

## VALUE OF MINERAL PRODUCTION IN 1928.

### About One-Third of the Country's Output Comes From the South.

Total value of mineral production in the United States in 1928 was approximately \$5,400,000,000. As estimated by the United States Bureau of Mines, this is a decrease of approximately 2 per cent of the total value of mineral products in 1927 and is due almost entirely to a decrease in the total value of mineral fuels. Of these, the quantity and value of coal decreased; the quantity of petroleum produced changed little, but the value decreased, and the quantity and value of natural gas and natural gasoline increased as compared with 1927. The total value of metallic products shows an increase due to increase in quantity and unit value of copper and an increase in the quantity of iron produced. Decreases were shown for gold, silver, lead and zinc. The total value of nonmetallic mineral products shows approximately no change.

#### ESTIMATED VALUE OF MINERAL PRODUCTS OF THE UNITED STATES, 1928.

Metallic .....	\$1,260,000,000
Nonmetallic (other than fuels) .....	1,240,000,000
Mineral fuels .....	2,900,000,000
<b>Total .....</b>	<b>\$5,400,000,000</b>

These estimates are subject to revision and replacement as soon as the Bureau of Mines can complete the canvass of mineral industries just begun to obtain accurate statistics for the year 1928. In this canvass the Bureau is sending to every mining, quarrying, and well-operating company an inquiry soliciting a report on the output of each mineral commodity by each producing establishment. Early success in this undertaking is dependent on the continuation of the prompt and cordial response of the mining companies which has been the basis of success in this statistical endeavor through many years, states the Bureau.

Development of the South's mineral resources has enabled this section for several years to produce about one-third of the country's total output annually. West Virginia is now the leading coal mining state, supplanting Pennsylvania.

### Census Wall Plaster, Wall Board and Floor Composition.

Establishments engaged primarily in the manufacture of wall plaster, wall board, and floor composition in 1927, according to the Department of Commerce, reported products valued at \$83,856,008, a decrease of 7.8 per cent as compared with \$90,957,045 for 1925, the last preceding census year. Among the principal items making up the total production are gypsum wall plaster, 4,188,704 tons, valued at \$31,892,534; wall plaster, other than gypsum, 111,512 tons, \$3,171,955; gypsum board, 929,954,714 square feet, \$20,222,353; fiber and other wall board, including insulating board, 403,653,834 square feet, \$15,718,661; and floor compositions, \$2,851,214.

The establishments in this industry are engaged primarily in the manufacture of gypsum and other wall board and wall plasters, insulating board, and floor composition. Establishments engaged in making wall and insulating board from wood pulp are classified in the paper industry.

Of the 221 establishments reporting for 1927, 41 were in New York, 35 in California, 17 in Illinois, 13 in Michigan, 11 in Iowa, 11 in Ohio, 9 in New Jersey, 8 in Pennsylvania, 7 in Washington, 6 in Texas, 5 in Maryland, 5 in Minnesota, 4 in Kansas, 4 in Missouri, 3 each in Colorado, Kentucky, Massachusetts, Nevada, Oklahoma and Wisconsin, and the remaining 27 in 18 other states. In 1925 the industry was represented by 222 establishments, the decrease to 221 in 1927 being the net result of a loss of 59 and a gain of 58. Of the 59 establishments lost, 30 went out of business prior to 1927, 7 were no longer engaged in manufacturing, 7 were idle

throughout the year, 6 reported commodities other than wall plaster, wall board, and floor composition as their principal products and were therefore transferred to the appropriate industries, and 9 reported products valued at less than \$5000. Of the 58 establishments gained, 2 were idle throughout 1925, 4 had reported products valued at less than \$5000 for 1925, 5 manufactured other classes of commodities as their principal products in 1925, and 47 reported for the first time at the present census.

#### PRELIMINARY SUMMARY FOR THE INDUSTRY, 1927 AND 1925.

	1927	1925	Per cent of increase (+) or decrease (-)
Number of establishments...	221	222	-0.5
Wage earners (average for the year) .....	10,014	10,978	-8.8
Wages .....	\$14,411,777	\$16,078,362	-10.4
Cost of materials, mill supplies, fuel and purchased power, total .....	\$31,998,385	\$39,553,463	-19.1
Materials and supplies .....	\$26,915,238	Not reported	...
Fuel and power .....	\$5,083,147	Not reported	...
Products, total value .....	\$83,856,008	\$90,957,045	-7.8
Wall plaster, wall board and floor composition .....	\$73,856,717	Not reported	...
All other products .....	\$9,999,291	Not reported	...
Value added by manufacture .....	\$51,857,623	\$51,403,582	+0.9
Horsepower .....	116,231	82,863	+40.3

\*Gypsum blocks, 62,833,561 square feet, valued at \$3,637,131; gypsum rock, 655,634 tons, \$1,709,221; and miscellaneous products, \$4,652,939.

#### PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1927.\*

	Unit of measure	Quantity	Value
Aggregate value .....			\$73,856,717
Wall plasters, total .....	Tons	4,300,216	\$35,064,489
Gypsum plasters, total .....	Tons	4,188,704	31,892,534
Neat plaster .....	Tons	2,423,785	18,080,543
Sanded plaster .....	Tons	554,673	4,143,818
Stucco .....	Tons	648,953	3,819,770
Molding, dental and gauging plaster .....	Tons	204,462	2,301,301
Finishing plaster .....	Tons	144,998	2,042,223
All other gypsum plaster .....	Tons	211,833	1,504,879
Other plasters, total .....	Tons	111,512	3,171,955
Portland-cement stucco .....	Tons	34,839	1,086,172
Magnesite stucco .....	Tons	29,591	1,014,413
All other .....	Tons	47,082	1,071,370
Wall board, including insulating board, total .....	Sq. ft.	1,333,608,548	35,941,014
Gypsum board, total .....	Sq. ft.	929,954,714	20,222,353
Wall board .....	Sq. ft.	658,780,359	15,929,492
Plaster board .....	Sq. ft.	224,205,056	3,594,681
Gypsum lath .....	Sq. ft.	46,959,299	698,180
Fibre and other wall board, including insulating board .....	Sq. ft.	403,653,834	15,718,661
Floor composition, total .....			2,851,214
Magnesite .....			2,071,524
Premixed concrete or cement .....			129,405
All other .....			650,285

\*No comparable data for 1925.

### Copper, Lead and Zinc Mining.

Figures showing the smelter and refinery output of copper, lead and zinc in the United States in 1928, issued by the Bureau of Mines, shows that the smelter production of copper from domestic ores was 924,500 short tons and the refinery production of new copper from domestic and foreign sources was 1,235,000 tons. Output of primary refined lead from domestic sources was 624,000 short tons and from domestic and foreign sources 780,000 tons. The smelter output of primary zinc from domestic ores was 582,100 short tons and from domestic and foreign ores, 594,500 tons.

The output of recoverable copper by the mines was about 905,500 short tons, an increase of about 10 per cent over 1927. The recoverable lead contained in ore mined in the United States was about 627,300 short tons, a decrease of nearly 6 per cent. The output of soft lead by mines of the Mississippi Valley and a small output from the Eastern States amounted to about 269,900 tons, and the largest output came from the southeastern Missouri district, about 193,400 tons.



## Vicksburg's New Romance of Industry.

SPIRIT OF PROGRESS HAS FIRM ROOT IN ONE OF OLDEST CITIES OF THE OLD SOUTH.

By CRADDOCK GOINS, Jackson, Miss.

Typical of the constructive development under way throughout the entire South is the spirited course of progress now taking place in Vicksburg, Miss. With construction records higher than at any time in its history, bank deposits mounting and citizens joining hands in new enterprises, there is growing up in those historic hills on the Mississippi River a city of olden splendor that has found a

new greatness in commerce, in agriculture and in industry.

Famed in war romances and songs of brave men who long withstood one of the mightiest sieges of all history, Vicksburg has always held strong appeal for the tourists who enjoy visiting Southern battle scenes. Thousands have come every year to see the mammoth National Military Park which the Government created in commemoration of the campaign, siege

Few cities in the country have greater historic interest than Vicksburg—before the Civil War one of the centers of social and financial prominence on the banks of the great Mississippi; during the Civil War the center of tremendous fighting activities; for some years after the War apparently inactive and living on its past glory. Today Vicksburg, as shown in the accompanying story, is throbbing with new life, or rather with a revival of that spirit which made it a great business and social center before 1860. It has caught the spirit of the age. It is growing like a green bay tree. Its people are thinking in terms of the present and the future rather than of the past. It is a city of romance and, in Civil War days, of tragedy. Today it is a city of bustling activity and prosperity.

and defense of Vicksburg. And now, many of the visitors carry blueprints and have come to talk over conference tables about new buildings, bridges, roads, streets, sidewalks, sewers; of the work with hammers, saws and steam shovels. The tourist still comes, but the Vicksburg of tradition, a sleepy little town in the hills, is rapidly changing its character.

Figures tell the new industrial spirit of the city in its metamorphosis. Building permits for the past year amounted to \$8,385,805, including a new steel and concrete bridge, probably the longest ever built in America carrying both rail and highway facilities, and costing \$6,500,000. Eliminating this gigantic enterprise, which is being promoted by Harry E. Bovay, a great builder of stone and steel bridges in the South, Vicksburg's



GREAT BRIDGE BEING CONSTRUCTED ACROSS THE MISSISSIPPI RIVER AT VICKSBURG.

Cost \$6,500,000; builders are the Vicksburg Bridge & Terminal Co., Harry E. Bovay, president; engineers, Harrington, Howard & Ash, Kansas City, Mo.; major contractors are U. G. I. Contracting Co., Philadelphia; Virginia Bridge & Iron Co., Roanoke; American Bridge Co., Chicago.

building permits for 1928 amount to \$1,885,805, more than three times greater than the average for the past five years.

Yet, coincidentally with this record-breaking increase in building, a large portion of which is entirely from local capital, bank deposits show a steady gain, amounting to \$12,885,100, approximately \$600,000 greater than for the preceding year. The new hotel, an 11-story structure representing approximately \$500,000, is being built entirely with local money, and a large part of local capital is going into the new



CONSTRUCTING PIER FOR THE BIG BRIDGE.

Stonewall Life Insurance Company, the new golf course, new sanitarium and annex to the Y. M. C. A. building. In view of this extraordinary investment of local capital, it is readily recognizable that the growth in bank deposits is remarkable. The new sanitarium represents \$100,000, the annex to the Y. M. C. A. will cost \$50,000, and much money has gone into improvement of business property.

The new, constructive spirit of Vicksburg is well expressed by E. S. Butts, president of the Chamber of Commerce during 1928, who says:

"The year 1928 was a notable one for Vicksburg. Probably no other city can point with greater pride to certain periods when its citizenship has responded more nobly to the needs of the community. The year 1928 has been one of the most, if not the most, outstanding year in the history of the city. Many individuals, many concerns and many agencies have contributed to the remarkable growth and progress shown. Our people have literally thrown themselves together in this new crusade to win for Vicksburg the place it deserves in commerce and history."

It is not to be taken that Vicksburg people are in the

slightest degree lacking in pride for the great National Park in the city. There is virtually no sectional bitterness. They admire just as much the monuments and shrines that Minnesota, Iowa, Wisconsin, Illinois and other states have erected to their Union dead as do those states themselves. "We feel, however," says Dr. Edley Jones, secretary of the Rotary Club, "that visitors to Vicksburg in the future will appreciate the city also as a great center of commerce and industry, but even greater factories, hotels, bridges and other structures cannot dim the beauty and grandeur of the great park, which shrine is just as dear to every Vicksburg man as it is to those who



\$500,000 11-STORY HOTEL UNDER CONSTRUCTION.

loved the cause of the Union. We are not thinking of battles that have passed, but of battles to come—battles for greater commerce, for civic development."

Vicksburg, located at one of the widest parts of the Mississippi River, with possibly the most spectacular national park in the world, with art memorials that compare with those of great European masters, with scenic beauty, with well-paved



SECTION OF PANORAMA VIEW OF VICKSBURG FROM THE MISSISSIPPI RIVER, IN THE METAMORPHOSIS



winding roads coming into the town from many directions—with these attractions, it readily recommends itself as a city of charm. But its industrial assets are in their way just as notable. Located in the southern tip of that extraordinarily fertile area called the Mississippi Delta, characterized by Frank O. Lowden and other national authorities as one of the world's most fertile regions, Vicksburg has rail, highway and water facilities for every need. Warren county is favored with a progressive type of public officials, especially in the personnel of the Board of Supervisors, of which E. S. Martin is chairman. This board maintains an annual advertising fund of approximately \$20,000 to exploit the resources and advantages of the county and its cities and has made possible a survey now being carried out under auspices of the Chamber of Commerce, which officials believe will result in notable benefit for agricultural and industrial progress.

Vicksburg is one of the first towns in line of connection with a great gas-generating electrical plant at Sterlington, La., erected by Harvey C. Couch, president of the Arkansas, the Louisiana and the Mississippi Power companies, at a cost of \$1,000,000. Vicksburg is likewise the terminal for the Warrior barge line, for which the Government recently spent approximately \$500,000 in revetting banks and re-establishing the terminal destroyed in 1927. Construction of the great Bovay bridge across the Mississippi means opening up Vicksburg to a vast amount of freight from Louisiana, Texas, New Mexico, Arizona and other points, much of which now is going in other directions. It is estimated that the city's industrial payroll has grown from \$2,000,000 in 1927 to \$5,000,000 in 1928, including the payroll for the Bovay bridge and for a bridge Warren county is constructing across the Yazoo River. In the development of the great National Military Park, more than \$2,767,405 has been spent by the national and state governments.

Vicksburg long has been a great religious center, with varied denominations. Also, on other lines, it is celebrated for its beautiful antebellum homes, many of which still stand with majesty and glory. And indicative of the sound nature of Vicksburg's development is the fact that it is in home construction that much of the present building activity is centered.

#### Contracts on 2,000,000-Bushel Elevator.

Edwin Allskog of Chicago, Ill., general contractor for the erection of the proposed 2,000,000-bushel elevator at Enid, Okla., for the General Mills, Inc., advises that roofing is the only part of construction to be sub-let. Contracts have been awarded to the Sheffield Steel Corp. of Kansas City, Mo., for reinforcing steel; to the Oklahoma Portland Cement Co., Ada, Okla., for cement, and to the Oklahoma Material Co. of Enid, for sand and gravel. James F. Bell of Minneapolis, Minn., is president of General Mills, Inc.

## SHIPPING CHARGES AT UNITED STATES AND FOREIGN PORTS.

### Official Report Gives Data on Consular Services and Charges, Passports and Foreign Currency.

The Board of Engineers for Rivers and Harbors of the War Department and the Bureau of Operations of the United States Shipping Board have issued a report on shipping charges at United States and foreign ports. The report gives data pertaining to consular services and charges applicable to vessels, freight and passengers, with information respecting passports and foreign currency and exchange rates.

There has arisen a demand for information with respect to Consular services and charges affecting vessels, freight and passengers, moving between the United States and foreign countries and this pamphlet has been compiled to meet this need. It is published as No. 2 of a Miscellaneous Series of reports to be issued to present authentic data covering various subjects pertinent to the movements of American products in national and international trade. This information should be of value to shippers, as it has not heretofore been available in published form; it may be obtained from the Board of Engineers for Rivers and Harbors, 2848 Munitions Building, Washington, D. C.

### New \$250,000 Flooring Industry for Charleston, S. C.

Charleston, S. C.—Application has been made for a charter for Endlaid Flooring, Inc., with a capital stock of \$250,000, to manufacture and market cypress flooring. It is made of vertical grain cypress specially treated to resist contraction or expansion and was originated by S. D. Butterworth, of Michigan, who will be connected with the new company in an executive capacity. Promoters of the enterprise include J. Freeman Williams and Harry J. O'Neill of Charleston, and Charles P. Gable, of Gable, S. C. For its operations, the company has acquired the plant of the Williams-Gable Manufacturing Co., Charleston, a subsidiary of the Woodstock Manufacturing Co., also of Charleston, and the Black River Cypress Co., Gable.

### \$500,000 Allotted for James River.

Richmond, Va.—For cutting a straight 21-foot channel through Rocklanding Shoals in the James River, 85 miles below Richmond, \$500,000 has been allotted by the War Department. This project which, it is said, will shorten the distance to the sea by 2 miles, is one of the major items in the general plan of the Government for the development of the James River as a waterway.



OF THE CITY FROM A HISTORICAL LANDMARK TO A LIVE INDUSTRIAL AND COMMERCIAL CENTER.

## Community Advertising Builds Economic Wealth.

By D. M. HUBBARD, Louisville, Ky.

From the oratorical-gesture state of a few years ago, city or community advertising has come a long way. Governmental agencies and business executives alike now accept it as a movement of real economic importance, for it has dropped most of its futile boasting and pointing-with-pride tactics. Today your well-counseled city talks balance-sheet facts. It knows that the men and women it aims to reach through printers' ink have long since learned to turn the page quickly on advertising superlatives and blue-sky claims.

Among the more recent advertisers in the South whose promotional activities are attracting the attention of the industrial world is Louisville. Since the close of the war, ten years ago, Louisville's growth, fostered by its Industrial Foundation, has been truly remarkable. Most of that growth has come from within and has been steady and substantial. Now Louisville wants industry at large to know the reasons why so many of its industries prosper and why failure is so rare.

A new industrial revolution took place when business began to study scientific management in the plant and factory. The next step led to attempts at introducing science, in the guise of simplification, standardization, and other mass production methods, into the distribution of factory output. While that phase is still "in process," a third phase is vigorously asserting its increasing importance. This is the present, noticeable tendency toward dropping snap judgment, hunch and guesswork in favor of something closely approaching a scientific method of plant location. For faulty plant location, more and more executives are realizing, can offset to a surprising degree the results of well-organized production, and aggressive selling efforts.

Some of the county's largest industrial plants grew to their present size from back-yard factories. Some are still in the enlarged back-yard despite its inadequacy as a plant site. Changing labor conditions, new sources of raw materials, hand-to-mouth buying, transportation facilities, the rise of new and profitable markets, low-cost power and a host of other new factors, all influencing competition and profits have tended to convert what may have been an entirely satisfactory plant location not so many years ago into an out and out liability now.

If advertising can help to bring order out of the tangle and help industry locate where it can prosper, advertising performs an obviously important service. If at the same time it can govern the growth of cities and communities to positions truly commensurate with the real advantages they offer, then advertising is actually creating wealth and doing it in the most economic manner imaginable. Not only sections of the country benefit; the entire nation benefits from that advertising.

Today necessity forces the city that advertises to talk pertinent facts. There are several reasons; one is that those who are furnishing the needed revenues for advertising want tangible returns in the way of new industries, tourists or buyers for the goods they produce. Your progressive city or community advertises because it is essentially an economic organism. Its citizens may not live for business. They know that business is not everything in life, but they know, too, that they live by means of business activities. Realizing, then, the fundamental relation of industrial growth to civic or community growth, more and more cities are turning to the tools that business has used most successfully to sell its goods and service.

Most cities, that have thought about the matter at all, see how advertising can help them attract industries and vacationists. Not so many have understood it as insurance

against undesirable publicity. In a Western state a few years ago the number of real estate transfers decreased by more than 21,000 in a single year. Countless people who were ready to visit that state for business or pleasure made other arrangements. Why? Simply because the state was unfortunate enough to receive a tremendous amount of damaging publicity. During the year an epidemic of hoof and mouth disease happened to break out. There were forest fires and shortages of water and power that millions read and talked about, because these events were news. To make matters worse, that same year saw pneumonia taking heavy toll in that section.

How much that state suffered from all these disastrous events is incalculable. It is doubtful if it will ever again suffer as much. For every individual who reads knows now of that state's advantages. If damaging news comes clicking into the telegraph desks of a thousand newspapers and finds its way into print, those who see it know a score or more of decidedly favorable, compensating facts to offset every one that may prove of negative value. Public opinion, created by good advertising is overwhelmingly on the side of this once maligned state.

### Expands National Advertising Program.

Plans for an enlarged and diversified advertising campaign for 1929 are announced by the Westinghouse company. J. C. McQuinston, general advertising manager, indicates that the program calls for a more intensive use of business publications than ever before. The wider diversification of products manufactured by the Westinghouse Electric & Manufacturing Co. makes it reach practically every consuming market and "the increase," states Mr. McQuinston, "in the number of products from year to year which we manufacture made it advisable for us to change our technical advertising to keep step. Our advertising policy aims always to expand the electrical industry by informing the public continually of the vital part that electricity plays in modern civilization. We aim also to be of direct service to the distributors of electrical products by direct advertising co-operation with such distributors." Diversification of production necessitates diversification of advertising, and the Westinghouse company's selected list of business papers is well over 150, covering practically every American industry. In addition, as in the past, farm papers will be used for such advertising as is applicable to the rural communities, an increased schedule of school and college papers, and the extensive use of newspapers together with business publications give a complete general advertising program.

So great is the business of the Westinghouse company that any new policy necessarily must affect a tremendous number of industries and individual business concerns. Its announced plan for broader consumer advertising is essentially a constructive program.

### Texas Air Line Purchases New Planes.

The Texas Air Transport, Inc., of Fort Worth, purchased 15 Travel Air, 6 passenger, monoplanes which they plan to use on eight lines in Texas. These will extend from Texarkana to Dallas and Fort Worth; from Dallas and Fort Worth to El Paso; Dallas and Fort Worth to Amarillo; Dallas and Fort Worth to San Antonio; Dallas and Fort Worth to Laredo and San Antonio; San Antonio to Corpus Christi and Brownsville; San Antonio to Houston and from Houston to Dallas and Fort Worth. Tom Hardin, vice-president and general manager of the company, will be the chief operating executive.

The base supply depot and machine shops of the company are located in Fort Worth, with branches to be established at Dallas, Houston, San Antonio, Waco and other cities.



# General Expansion of Industry and Building Under Way in Richmond and Vicinity.

[Special Correspondence Manufacturers Record.]

Richmond, Va., February 16.

One can walk hardly two blocks in any direction in the downtown business district of Richmond without passing one or more major commercial building projects actively under way, while in the outlying sections, new apartment houses, store buildings, churches and dwellings in a wide variety of types are being constructed; new streets are being built and gas, water and sewer mains extended. And all this construction is in progress before the arrival of the normal building season. The activity naturally is stimulating to business, and because the city is receiving beneficial effects also from the industrial expansion throughout the state, particularly developments in the immediate vicinity, business men generally are optimistic, and architects, contractors and building material firms look forward to a year of good business.

Within an area of four blocks, Carneal, Johnston & Wright, local architects, are supervising the erection of three major structures entailing an expenditure of over \$2,000,000. The firm has "on its boards" plans for structures not yet publicly announced that will necessitate the expenditure of over \$1,500,000. "We are busier now than since 1923," said J. A. Johnston, discussing the general situation, "and the outlook is very bright. Present activity is in no sense a boom; there is no speculation here. We are building fine types of structures for which there is a demand in clearly defined districts."

Charles M. Robinson, architect, reports work under way or soon to be started on structures in and near Richmond for which his firm prepared plans, these buildings to cost over \$4,000,000. Plans will be out in a few weeks for the West End High School, Richmond, \$800,000; in two weeks plans will be ready for a \$50,000 retail store for Sears, Roebuck & Co.; a physics building, \$125,000, and Maryland hall, \$70,000, both for the University of Richmond, plans are under way. In addition to these projects the Robinson firm has plans for projects costing \$100,000 each and up involving the expenditure of over \$1,000,000, on which no announcements have as yet been made.

## Chain of Textile Mills Under Way.

An undertaking of more than ordinary importance is the establishment in the state of a chain of textile mills by the Rockbridge Company. Work is under way on foundations for plants estimated to cost \$1,000,000 each at Craigsville, Augusta Springs and Goshen, and a site will soon be selected for a fourth unit. It is part of a plan to establish industries in small communities to give employment to rural residents, and thus make more general the prosperity of the state. Lee H. Williamson, engineer, Charlottesville, is representing the interests promoting the project. Allen J. Saville, Inc., Richmond, is handling the foundation work. Contracts are soon to be let for the superstructures. The Virginia Bridge & Iron Co., Roanoke, has the steel contract.

## \$1,500,000 Paper Mill Being Erected.

Work is under way at West Point on a paper mill to cost \$1,500,000 to be operated by the Albemarle-Chesapeake Co., Inc., organized by the Albemarle and Chesapeake paper interests in Richmond. A \$300,000 expansion program is also in progress at the mill of the Chesapeake Corporation. Contracts for major items of machinery for the new plant have been awarded Pusey & Jones, Wilmington, Del., the output to be 100 tons of kraft paper daily. John T. Wilson, Inc., Richmond, is the general contractor. The Truscon Steel Co., Youngstown, will supply reinforcing steel and steel sash;

Sash, Door & Glass Corp., Richmond, the glass and glazing. Contracts for structural steel, brick work, roofing, etc., will soon be awarded. Foundation work is in progress. The main building will be a reinforced concrete structure, 77 by 578 feet. An addition to the power plant of the Chesapeake Corporation will be built, 52 by 77 feet and 65 feet high, of reinforced concrete and steel.

## Power Company to Expend \$4,000,000.

The Virginia Electric & Power Company will expend \$4,000,000 this year in improving its service facilities, having invested many millions in the past few years in greatly extending its transmission lines to cover a territory from near Washington down into Eastern North Carolina. It is improving street car service in the cities it serves and is gradually extending the use of motorbuses, having recently put into use in Richmond five street car type coaches made by the Twin Coach Co., Kent, Ohio.

## Power Project Promoted by Richmond Interests.

Work is proceeding on a project near Snowden, Va., for the Hydro-Electric Corporation of Virginia, headed by I. J. and M. J. Marcuse of Richmond. Rinehart & Dennis Co., Inc., Charlottesville, are the general contractors; and W. N. Whitner & Co., Inc., consulting engineers. The Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., have contract for the principal electrical equipment; Woodward Governor Co., Rockport, Ill., governors; trash racks and rakes, Newport News Dry Dock & Ship Building Corp.; James Leffel Co., Springfield, Ohio, hydraulic equipment and gate hoists. The gravity type dam will be 1600 feet long. Five 1500-kilowatt vertical water wheel turbines with direct connected exciters will be installed. A 30-ton traveling crane with a span of 26 feet is to be purchased. The project is to be finished by September.

## \$500,000 Steel Car Plant Under Way.

The Standard Steel Car Works, J. C. Snyder, vice-president and general manager, is going forward with a big expansion program said to entail an expenditure of over \$500,000, at the plant of its subsidiary, the Richmond Car Works, Inc. A machine shop, 35 by 100 feet, has been finished. Three tracks, 700 feet long, are to be covered to provide space for painting and car building. A number of dry kilns will be built together with a woodworking plant. Concrete floors will be laid in the main steel shop. A truck, wheel and axle shop is being built. The work is being handled by the company's force after plans by engineers of the Standard Steel Car Co., Pittsburgh.

## Industrial Expansion Widespread.

The Virginia-Carolina Co. is spending about \$250,000 for plant improvements. The Richmond Sand & Gravel Co., said to be controlled by the Norfolk Sand & Gravel Co., and the Arundel Corp., Baltimore, are reported to expend perhaps \$500,000 on a new plant. The Old Dominion Shoe Co. established a plant employing 50 workers. The Sanitary Felt Products Co., said to be controlled by the Simmons Co., New York City, is establishing a big plant. The Dixie Concrete Stave Co., the Caukenell Bag Corp. and the Richmond Envelope Co. have built new plants. A \$100,000 municipal dock was finished recently, as was a new dock and warehouse for the Richmond-New York Steamship Co. The Stauffer Chemical Co., New York, acquired a 300 acre site near Richmond for a plant to make chemicals used by rayon plants. A few

miles out on the Petersburg Pike at Amphill the Du Pont Rayon Co. is rushing forward the first units of a big rayon plant using the viscose process.

#### **\$3,000,000 Improvements for Telephone Company.**

The Foundation Co., New York, is putting in foundations for an exchange and office building for the Chesapeake & Potomac Telephone Co., estimated to cost \$3,000,000 with equipment, the building itself to cost over \$1,000,000. It will be 7 stories high, of the set-back type. Voorhees, Gmelin & Walker, New York, are the architects. General contract has not been let.

The items discussed in the foregoing cover only some of the major projects in the Richmond territory.

#### **Foreign Trade Convention Program.**

The preliminary program for the sixteenth annual convention of the National Foreign Trade Council, to be held in Baltimore, April 17-19, gives particular attention to the subject of merchandising, while also selected boards of expert trade advisors will be on hand to help solve problems on marketing, credits, export advertising, banking facilities, transportation and traffic and general foreign trade practices. Convention offices have been opened in the new Lord Baltimore Hotel, where the sessions will be held.

The feature of the first day will be an address by James A. Farrell, chairman of the Council and president of the United States Steel Corporation, who takes "World Trade Today and Tomorrow" as his subject. "The Economic Improvement in Europe" and "Canada, Our Best Customer," will be other topics of the day. Among the subjects to be discussed at the merchandising sessions are: "Service As a Salesman," "Advertising to Aid Foreign Distributors," "Financing Methods," "Some Practical Experiences," "The German Scheme," "British Practice," "The Situation in the United States." Progress in the Far East and air transport for commerce are two other important topics.

While membership in the Council is restricted to about 50 leading men from all parts of the country, attendance at the annual conventions usually runs to about 2000 persons. The members from the South are: James P. Butler, Canal Bank & Trust Company, New Orleans; George Gordon Crawford, president, Tennessee Coal, Iron and Railroad Company, Birmingham; F. G. Crowell, Hall-Baker Grain Company, Kansas City, Mo.; J. J. Culbertson, Southland Cotton Oil Company, Paris, Tex.; J. S. Cullinan, Houston; Crawford H. Ellis, United Fruit Company, New Orleans; Julius Goslin, Joubert & Goslin Machinery & Foundry Company, Birmingham; R. S. Hecht, Hibernia Bank & Trust Company, New Orleans; Ernest Lee Jahneke, Jahneke Dry Docks, Inc., New Orleans; Paul J. Krussl, Southern Ferro Alloys Company, Chattanooga; Neal M. Leach, Steele Steamship Line, New Orleans; William H. Matthal, Beaver Dam Marble Company, Baltimore; Philip Shore, Philip Shore Shipping Company, Inc., Tampa; Robert W. Woodruff, Coca-Cola Company, Atlanta, and J. D. Woodside, Woodside Cotton Mills, Greenville, S. C.

Information is obtainable from O. K. Davis, secretary of the Council, 1 Hanover Square, New York City, or convention headquarters in Baltimore.

#### **\$1,200,000 Gas Line Proposed in Missouri.**

Saginaw, Mo.—Authority has been granted by the Missouri Public Service Commission, Jefferson City, to the Cities Service Gas Co., New York, controlled by H. L. Doherty & Co., of that city, to construct a 73-mile gas pipe line from Saginaw to Galloway, near Springfield. The line will cost approximately \$1,200,000 and is designed primarily to supply gas to the Ash Grove Lime & Portland Cement Co., near Springfield; the town of Neosho will also be served.

#### **Institute of Steel Construction to Draft Sales Code.**

A committee to draft a code of standard selling practices for the structural steel industry has been announced by Charles N. Fitts, president of the American Institute of Steel Construction. In naming this committee Mr. Fitts carried out the policy outlined at the last annual convention of the institute. The committee will prepare a draft of a code and submit it to the institute for formal adoption.

Commenting on this step, Charles F. Abbott, executive director of the institute, said:

"A declaration of what constitutes sound selling practice based upon fairness and justice to all represents one of the most important undertakings ever considered by the institute. Police power is not available to enforce the provisions of any code. Its usefulness must depend upon individual initiative. In proclaiming a Code of Standard Selling Practice, the institute will establish principles that should guide selling activities. It must condemn the unfair, destructive methods and approve those that are fair and efficient. The moral effect will tend to elevate the sales methods onto a higher plane. By constantly featuring the code adopted by the institute the industry will do much toward insuring better selling practices."

The committee is as follows: Robert T. Brooks (chairman), The Geo. A. Just Company, Long Island City, N. Y.; T. J. Foster, National Bridge Works, New York; A. M. Conneen, Jr., Hedden Iron Construction Co., Hillside, N. J.; H. E. Detwiler, Anthracite Bridge Co., Scranton, Pa., and R. L. Kift, Lehigh Structural Steel Co., Allentown, Pa.

In order that the work be in keeping with all local requirements and conditions, the following regional contact committeemen have been appointed to cooperate with and assist the general committee:

Wm. C. Schnabel, Dietrich Brothers, Baltimore; R. I. Ingalls, Ingalls Iron Works Co., Birmingham; G. S. Kellogg, Kellogg Structural Steel Co., Buffalo, N. Y.; A. Ross Robertson, Dominion Bridge Co., Toronto, Ont., Canada; John J. Duffin, Duffin Iron Company, Chicago; A. G. Fish, The Midwest Steel & Iron Works Co., Denver, Colo.; L. J. Knapp, Whitehead & Kales Co., Detroit; R. H. Dickson, Robert Berner Structural Steel Co., Indianapolis; Neil G. Lilley, Kansas City Structural Steel Co., Kansas City, Kan.; A. C. Bell, Wisconsin Bridge & Iron Co., North Milwaukee, Wis.; W. D. Timperley, Crown Iron Works Co., Minneapolis, Minn.; J. E. Miller, The Bellefontaine Bridge & Steel Co., Bellefontaine, Ohio; Karl Vogel, Omaha Steel Works, Omaha, Neb.; Frank Parker, The Struct. Steel Board of Trade, Philadelphia; G. E. Klingelhofer, Pittsburgh Bridge & Iron Co., Pittsburgh; R. P. Liphart, Richmond Structural Steel Co., Richmond, Va.; Paul Gillespie, Judson Pacific Co., San Francisco; Cecil H. Bacon, Bacon & Matheson Forge Co., Seattle, Wash.; J. W. Thomsen, Stupp Bros. Bridge & Iron Co., St. Louis, Mo., and Melrose Holmgreen, Alamo Iron Works, San Antonio, Texas.

Contact committeemen for several additional territories are still to be appointed.

#### **\$350,000,000 Utility Holdings in Merger.**

New York press reports announce that directors of the Electric Bond & Share Co. and the Electric Bond & Share Securities Corp., the controlling organization, have authorized the merger of the two companies and that stockholders will be asked to approve it on March 12. The consolidated company will be known as the Electric Bond & Share Co. and it is estimated that the deal will unify the control of cash and assets of more than \$350,000,000. Holders of the common stock of the Electric Bond & Share Securities Corp. will receive three shares of the common stock of the consolidated corporation for each share of their present stock. The new company will have a capitalization of 14,500,000 shares, divided into 1,000,000 shares of \$6 preferred stock, 1,000,000 shares of \$5 preferred stock and 12,500,000 shares of common stock, all of no par value and with equal voting rights. None of the \$5 preferred stock will be issued to consummate the merger. The Electric Bond & Share Co. is interested in a number of Southern properties.



# Paving Brick Industry Holds Annual Meeting.

ADEQUATE RECOGNITION SOUGHT FOR VITRIFIED PAVING BRICK IN NATION'S \$2,000,000,000 ROAD-BUILDING PROGRAM.

[Special Correspondence Manufacturers Record.]

Washington, February 16.

Plans to obtain appropriate and adequate recognition for paving brick in the huge roads and streets construction program in the United States this year were discussed and put in motion by the members of the National Paving Brick Manufacturers Association in convention here this week. Because of climatic conditions and other features, the South was regarded as a particularly inviting field and the experiences of various Southern states and cities with brick paving are expected to help in the campaigns for contracts.

As the foundation for their work, members of the organization cited the sound condition of their industry, both in its entirety and in individual concerns. Although 1928 did not measure up quite to some preceding years, little talk of "profitless prosperity" in the industry was heard, and optimism was general and evident. It was estimated that \$2,000,000,000 is now the national annual expenditure on highway work, of which about 75 per cent is for rural work and the balance for roads and streets in urban communities, and for a very appreciable part of this, the convention felt, brick would be accepted as most suitable material.

In belief that high quality in their product, proper foundation for such roads and proper laying of such roads were outstanding essentials for development of brick paving work, the convention devoted itself largely to a discussion of technical features, opening with group sessions and passing on to the reading of papers and general discussions of the ideas advanced. Some of the papers were illustrated by lantern slides, and charts and road pictures were thrown on the screen, to promote and clarify the debates. An address on "Practical Utility of Sub-Grade Investigation," by C. A. Hogentogler of the Federal Bureau of Public Roads, was followed by general discussion led by George B. Sowers, Cleveland, and "Experiments in Filler for Brick Pavements," by R. N. Waid, Columbus, Ohio, led to a discussion under Bryson Vallas, city engineer of New Orleans; Harry C. McCure of Flint, Mich., and Philip Galiardi of Connellsville, Pa. "Relaying Old Brick Pavements" was the subject chosen by W. E. Sheddan, city engineer of Jacksonville, Fla., and discussion followed under Alexander Hutchinson of Swissvale, Pa., and Harry Phillips of Davenport, Iowa.

Other practical subjects, more or less technical in their nature, were: "The Design for Concrete Bases for Vitrified Brick Pavements," by Roy M. Green of Lincoln, Neb., discussed by Colonel R. Keith Compton, director of public works, Richmond; Fred J. Cellarius, Dayton, Ohio, and Perry J. Freeman of Pittsburgh; "Flexible Bases for Vitrified Brick Pavements," Harry F. Harris, Trenton, N. J., discussed by W. R. Neel, state highway engineer, Atlanta; "Progress in Highway Development," W. C. Markham, executive secretary of the American Association of State Highway Officials, Washington, D. C., and "A Survey of General Paving Conditions," W. H. Connell, executive director of the Regional Planning Federation, Philadelphia.

According to the views of Mr. Connell, Mr. Neel, Mr. Freeman and Mr. Cellarius, vitrified brick for use in pavements should be thoroughly annealed, tough, durable, non-absorptive and uniformly burned, and free from marked laminations, and should conform to the standard tests of the engineering

societies and the sizes agreed on by the Hoover committee on standardization. "The stability of a pavement depends on the foundation and the local soil conditions must be considered in providing adequate drainage of the sub-grade," they continued, and an adequate foundation for a brick pavement was strongly stressed. The advantages of brick pavement for heavy traffic, for street railway track construction, for resurfacing and for bridges were set forth, and instances were cited to show that brick paving had made good in various places where laid.

At Gulfport, Miss., it was shown, 45,000 square yards of vitrified brick paving was laid in several streets in 1907 and 1908, on five-inch concrete base, with one-inch sand cushion and cement grout filler, on which recent report said that maintenance costs have been "practically nothing" and in which virtually no defects developed. A brick pavement on Madison street, Lynchburg, Va., laid in 1902, was relaid 20 years later with about 85 per cent of the original bricks, and after inspection this year was pronounced in first-class condition "and good for a very long period of service." Since 1921, it was reported, about 90,000 yards of brick pavement have been laid on heavy traffic streets in Richmond, on six-inch concrete foundation and one-inch sand cushion, and Colonel Compton said that there has been no maintenance cost on these pavements. Also, he said, another brick street, constructed in 1900, was resurfaced with a bituminous pavement in 1926, there having been no previous maintenance costs.

As city engineer of Orlando, Fla., Morton MacCartney was quoted as saying that over 100 miles of brick pavements had been laid there, chiefly on pressed sand, and that, despite excavations for sewers, etc., the entire maintenance cost had been very low. Howard avenue, Biloxi, Miss., was originally paved with vitrified brick in 1896 and was reconstructed on a concrete foundation in 1924, the old brick being turned on the side in the new construction and over 90 per cent of the old brick being salvaged. "Inspection in April, 1928, showed the street to be in practically perfect condition and good for many more years of traffic service," said the report.

Other examples of the value of brick as paving also were given in a comprehensive report of an investigation of paving and general highway conditions by an engineering commission of the association, appointed by the president. This report was described as of great value, as giving actual facts, data and statistics. The concluding paragraph read:

"As a result of this investigation of paving throughout the country, which included a very thorough analysis of the brick paving situation, we recommend vitrified paving brick as a highly satisfactory and an economical pavement under the conditions set forth in this report."

The brick men did not claim that vitrified brick makes the best pavement under all conditions, nor did they minimize the value of other materials for paving; but they set forth conditions under which they believe brick to be the most economical and substantial material and under such conditions they will strive to obtain their full share of paving contracts.

Reports and addresses by President Fred L. Manning, O. W. Renkert, chairman of the special executive committee; G. F. Schlesinger, chief engineer and managing director; Secretary Q. A. Campbell, Treasurer W. H. Terwilliger, Field Engineer J. E. Griffin and Frank B. Dunn also were features, and a banquet also was enjoyed.

## Missouri Pacific Rail Lines Add Bus Service.

As the first step toward the probable entry of the great railway systems of the Middle West into the automobile bus transportation field, the Missouri Pacific Lines some time ago asked of the Arkansas Railroad Commission permission to operate bus lines within the state through the Missouri Pacific Transportation Company. This service, according to information from E. H. McReynolds of the Missouri Pacific rail lines, is designed to improve service on highways paralleling the Missouri Pacific tracks and to serve as a feeder for the main line.

While the passenger revenue of Class 1 railroads in the United States has been \$312,000,000 less than normal in each year since 1920, or 25 per cent of the total passenger revenue of 1920, according to Missouri Pacific figures, the decrease on the Missouri Pacific is computed to have run close to 33½ per cent for 1928, and this despite the fact that millions of dollars have been spent for improved track and equipment, shorter schedules and other important transportation features. As a matter of fact, railroad men estimate that such passenger revenue should have increased about \$400,000,000, so they deduce that the private automobile is taking about \$200,000,000 and the public automobile about \$500,000,000 from the annual passenger revenue.

The Missouri Pacific passenger revenue now is figured at \$7,000,000 a year under that revenue in 1920, and is progressively declining, and investigation shows that \$8,000,000 a year is going to motor coach lines operating in its territory. Three hundred million dollars is to be spent for highways in a few years in states in which it operates. The answer to this problem is best expressed by P. J. Neff, vice-president and general manager of the Missouri Pacific Transportation Company, who says:

"The answer seems rather simple when all the facts have been developed. To protect the revenue, it is necessary to own the highway transportation service along our rail lines, or at least to be in a position to compete, on equal terms, for this business.

"So, the Missouri Pacific Transportation Company was formed and has to date acquired highway motor lines paralleling about 1500 miles of the Missouri Pacific Lines in Missouri, Arkansas, Louisiana and Texas. Our activities have

been confined so far to passenger transportation. The study of the loss of freight traffic has not been completed, and I cannot say at this time whether we will engage to any extent in such transportation. With it must be considered the all-important question of store-door delivery which as yet no railroad has been willing to undertake, at least, on a large scale.

"In regard to legislation on this character of transportation, regulatory laws have been passed in most states and, generally speaking, it now is necessary, before engaging in intra-state business, to secure from the Public Service Commission, a certificate of convenience and necessity. While some state laws are silent on the subject, most of them prohibit the granting of more than one certificate on a highway and, with few exceptions, all the commissions have established such a policy. The courts, however, are construing the law, in a number of instances, to favor the railroads where they elect to go into the highway business, to substitute the motor coaches for unprofitable passenger trains. And they are recognizing the public convenience and necessity of a co-ordinated highway and rail service, particularly with respect to handling heavy baggage on trains, where the patron desires to make the trip by highway. Connecticut has even passed a law permitting railroads to engage in highway transportation."

Already, Missouri Pacific buses are in actual operation, the service in Arkansas radiating out of Little Rock to almost every corner of the state. One line runs to Fort Smith and back to Paris; another to Batesville and a third through Fordyce and other places to Eldorado; another to McGhee, where it branches, these branches in turn being connected at other places. Also, there is a line between Pine Bluff and Sheridan, and another route to Texarkana. In Missouri, the service operates a line out of West Plains through Poplar Bluff to Bird's Point, and other lines are under consideration. In Texas, there is a route connecting Houston with Freeport, and another from Corpus Christi with connections and ramifications.

As of December 24, last, the Missouri Pacific Transportation Company owned 80 motor coaches, with railroad and bus tickets good on both the Missouri Pacific rail and bus services. Travelers even may check baggage by rail and travel by motor coach. That is the start on the Missouri Pacific Lines, and it is reported to be only a start.

## Texas Power and Light Company Seeking to Electrify Agriculture.

"Having been born and raised on a Texas farm I know exactly what farm life in Texas without electricity means. For many years I have studied the problem of making electricity possible for Texas farmers," said John W. Carpenter, president of the Texas Power and Light Company, in the foreword of a booklet dedicated by his company to better farming. In the pages that follow is a profusely illustrated discussion of the problems involved in the electrification of Texas farms, the farm tasks that can profitably be performed by electricity, and the advantages of its use. While hundreds of Texas farmers, advantageously located, are already using the current, what of the thousands living in such isolation that as yet it has not been financially feasible to carry the current to them? asks Mr. Carpenter. In reply he says that business, appreciating its dependence upon a profitable agriculture, is contributing money and brains to an effort to work out means of electrifying all farms. "Texas Power and Light Company is a chief supporter of the Texas Committee on Rural Electrification," he says. "This work consists of fact-finding." As a beginning, a list of test farms has been established, on which to measure costs. With complete cost data in hand it will be possible to proceed intelligently in building lines, installing equipment and in carrying on ex-

perimental work on new uses for electricity on the farm, thus bringing a benevolent revolution into the lives of many farm families, and aiding in the herculean task of making farming seem profitable and pleasant as measured by the exacting standards of this age.

## Nashville Plans \$795,000 Bonds for Improvements.

Nashville, Tenn.—Under the provisions of five bills passed by the State Senate, the city of Nashville is empowered to issue a total of \$795,000 of bonds for improvements in the Twenty-sixth and Twenty-seventh wards, lately annexed. The proposed bonds include \$175,000 for water mains, fire plugs and equipment; \$250,000 for lateral sewerage, \$300,000 for the construction of fire halls, alarm systems, drill halls and the installation of fire-fighting equipment; \$20,000 for street lighting, and \$50,000 for lighting and equipping parks, and playgrounds.

## New Industry Board for Winston-Salem.

Winston-Salem, N. C.—For the purpose of bringing new industries to Winston-Salem the Board of Industry has been organized here with J. S. Kuykendall as president. The board will co-operate closely with other civic and commercial organizations in promoting the industrial growth of the city.



# Federal Loan Banks and Co-operative Farm Associations Aiding Louisiana Agriculture.

ORDERLY MARKETING MADE POSSIBLE THROUGH BETTER FINANCING METHODS.

By THOMAS EWING DABNEY.

Federal aid has kept the home fires burning on many a farm in Louisiana. The Federal Intermediate Credit Bank, for the sugar industry of the state, and the Federal Farm Loan Bank, have done yeoman service. The aid the government has extended has been in the direction of bringing out economic possibilities, not in artificially holding up values. Through the Land Bank, long-term credit has been extended to the farmers, under which they have been able to buy their lands, put in improvements, and develop production. Through the Intermediate Credit Bank, they have been able to finance the making of the crop itself. Through the Co-operative Farm Associations, they have found it possible to market their production in an orderly manner, instead of dumping it at the end of the season, under low prices.

Each of the 12 intermediate credit banks in the United States is capitalized at \$5,000,000, and each can issue debentures for 10 times their capitalization. That makes each a credit reservoir of \$55,000,000, or \$660,000,000 for the entire country. The New Orleans bank has for its territory Louisiana, Mississippi and Alabama.

In this territory, there are only four co-operatives. They are the Louisiana Farm Bureau Cotton Growers Co-operative Association of Shreveport; Mississippi Farm Bureau Cotton Association of Jackson; Staple Cotton Co-operative Association of Greenwood; Alabama Farm Bureau Cotton Association of Montgomery. At one time, there was a rice co-operative in Louisiana, but it went out of existence, because the large producers wished to control their own product. The rice problem of Louisiana is more one of export, which depends on production and prices elsewhere, than of domestic consumption.

When the crop is made under the co-operative system, it is turned over to the association, which issues to the producer a warehouse receipt, and advances him 65 per cent of the market price. This is about enough to pay the crop bills. It relieves the farmer of the pressing demands of his banker and supply-man when the crop is gathered, and he is not forced to sell at the first price offered to relieve his financial obligations. The co-operative markets the product as advantageously as possible and within the period indicated by the grower; the price is averaged within certain time limits and the farmers paid on that basis. The co-operatives have no capital; the farm products are their capital; they do, however, set aside certain reserves.

The New Orleans Intermediate bank is doing business with only one of the co-operatives in this territory, that of Greenwood, Miss. The others make their financial arrangements locally.

In connection with the co-operatives, are agricultural discount corporations, formed to finance the making of the crop. There are also a number of such discount organizations "on their own." There are: One in New Orleans, for sugar; one in Lake Charles and two in Crowley for rice; one in Lake Charles for cattle; one in Franklin for sugar; one in Amite for strawberries; one in Picayune, Miss., for truck; one in Jackson, Miss., for cotton. Nine in all. They supply the credit with which the farmer is enabled to buy the material and pay the labor of crop-production, and the loans must be repaid at the end of the season. The lending rate on sugar

lands is about \$35 an acre for plant cane and \$25 for stubble; on cotton lands, from \$5 to \$20 an acre, depending on the character of the soil; on rice lands from \$12 to \$20 an acre; on strawberries and on truck, from \$25 to \$50 an acre. On cattle in the Lake Charles region, which is tick-free, the association has already loaned about \$300,000.

The agricultural credit corporations must have a paid-in capital proportionate to the amount of business they do. This paid-in capital is the basis on which credit is made available to them, and through them to their members. Furthermore, the affairs of the corporations must be administered by local planters and farmers and others interested, who understand crop conditions and are able to pass intelligently upon every loan. The important thing is not that the money is loaned. The important thing is how it is loaned.

Under the system that has been developed, planters and farmers have been put on a strict budget basis. In former years, there are not many that knew what budget meant. It has been of the utmost importance, this making them think ahead, estimate ahead, plan ahead, and cut their coat to fit their cloth. Nor is all the money handed over at one time. It is given to the borrowers only when they need it to meet the current expenses of production, on a monthly basis. They are saved interest, and they are kept from the temptation of lavish spending that a large balance in the bank inevitably provokes. And it is not loaned at all, if they don't work their crops properly, or if there is any doubt that a dime is going for any purpose beyond the production of the crop. There are experts who are continually inspecting the fields, and upon their report depends whether or not the monthly check is sent to the borrowers. If the farmers are performing, there will be no trouble; if they are not, they might as well step aside and let somebody get on the job who can perform and will.

The State Agricultural Credit Association of New Orleans, created to finance sugar cane production, is the largest of the discount corporations in Louisiana, and it is one of the largest in the country. It has a capital of \$450,000 and a credit of two and a half million. It has financed most of the new-cane production. It is one of the most successful of the discount corporations in the entire system.

The Intermediate bank is lending about \$15,000,000 a year in Louisiana, Mississippi and Alabama. Its principal business has been in Louisiana.

So far, truck production has made small demands upon the system. Cattle have also been principally a minus quantity, a fact that is of deep regret to T. F. Davis, president of the Intermediate bank. The reason has been the tick. "If tick-eradication laws had been adopted at the last session of the legislature," he says, "there would have been opened a most important source of wealth-production in Louisiana. This is a great cattle country—I mean, it could be made so, for it has exceptional natural advantages; and it is one of my keenest regrets that Louisiana is not able to take advantage of these opportunities. For a time, I had great hopes that the legislation would pass. We will never see a cattle industry in Louisiana until the tick has been eradicated. What we have been doing in the tick-free section of Lake Charles is indicative of what Federal aid might do throughout Louisiana in cattle, if the tick were destroyed."

# IRON, STEEL AND METAL MARKET

## Continued High Rate of Steel Production.

Pittsburgh, February 18—[Special.]—Steel production has been at a substantially unchanged rate since the first of the month, about 90 per cent of capacity, against 88.20 per cent officially reported for January and 85.29 per cent for December.

Plate mills in the Chicago district have fallen somewhat farther behind in deliveries, now promising 30 days on new orders. Pittsburgh and eastern plate mills have relatively little work and can make prompt shipment. All the strip mills are filled for say three weeks or more, and sheet mills making special finishes, chiefly for the automobile trade, are nearly as well filled. Pipe mills have a somewhat lighter operation, averaging about 50 per cent against about 60 per cent early in January. Wire mills are running scarcely as well as in January, when they had heavy shipments to complete old contracts, there being advanced prices on contracts for the current quarter. Thus there is a wide divergence in activities in different branches of the trade. As steel finishing capacity is 20 to 30 per cent above steel making capacity, low rates of operation in some finishing departments are not inconsistent with production of steel itself being at 90 per cent. Many steel making departments are running absolutely full.

Freight cars ordered since the first of the year total about 25,000, involving about 300,000 tons of rolled steel, apart from wheels and other castings. Orders reported in the week include 2900 cars by the Illinois Central, 675 by the Texas Company and 250 by the Elgin, Joliet & Eastern.

Fabricated structural steel lettings reported in the week were light, only 18,000 tons. The weekly average thus far this year is about 35,000 tons, which makes a fair showing.

Doubt is practically removed as to the correctness of the estimate that more than 400,000 passenger automobiles and trucks were produced in the United States and Canada last month. This is 25 to 30 per cent above what would be expected to give January the same production relative to last year's recorded total as the average relationship has been in the last five years. This suggests that one of two things was the case, either there was a remarkable jump in the regular pace or there was overproduction. Judgment is withheld, as the course of affairs in the next few weeks should throw light on the matter. What impresses the steel mills is that some automobile and parts makers are running so much better than others.

The Steel Corporation's unfilled obligations increased by 132,775 tons during January, making a very good showing considering the month alone, as a January decrease would not be surprising when quarterly contracts would naturally fall in December, with January shipments operating to decrease the unfilled total. The four months through January, on the other hand, show a net increase of only 411,119 tons, which does not make a favorable comparison for those particular months, which cover the seasonal rail buying movement when rail bookings are heavy and rail shipments are relatively light.

In the majority of finished steel products prices are steady with no indication of their being likely to move in either direction. Hot rolled strips are an exception, as makers have begun announcing a \$2 a ton advance, applicable to what little business remains to be done for the quarter, and to second quarter contracts. A few of the sheet mills have stated they are advancing prices but it is a question whether this movement will come into general vogue. The scrap markets continue rather dull and prices are a shade easier. Altogether there has hardly been as much buying in the last few weeks as would be expected from the present and prospective rates of steel production.

## Strength Maintained in the Metals.

New York, February 18—[Special.]—The situation in the metal markets continues very strong for the most part, copper and lead occupying first position. Zinc is rather scheduled to go higher, though is slow in getting started. Tin consumption is larger than ever before throughout the world and prices are fairly firm. Quicksilver, among the minor metals, has had \$1 per flask added to its quotation, now selling at the minimum figure of \$121 per flask. Silver, on the other hand, has proved weak, selling at 56c per ounce on Thursday, the lowest in several months.

The copper market has turned quiet after the feverish buying of late January and early February. Prices are strong at 18 cents per pound in the domestic market and 18¼c c. i. f. European ports. Consumers are far from at ease because of the decrease by 2717 tons in surplus stocks of refined copper at North and South American refineries during January. At a time like the present when consumption is at record pace the users of copper would much prefer to see a gain.

Lead was marked up \$2 per ton to 6.85c per pound, New York, and 6.75c, East St. Louis. This is a rise of \$4 per ton since early January and further rises are looked for. Consumers of lead are trying to buy much further ahead than has been their wont, inquiries appearing for as far distant as May, but these, producers will not entertain.

The general situation in the steel industry helps the non-ferrous metals by sympathy. Railroads and automobile makers are the best steel buyers and by the same token they are to use large quantities of the metals. January steel and iron production were the highest on record for the first month of a year. The Steel Corporation has enough orders on books to insure four months operations at the current rate without booking another order. This corporation, too, is one of the largest consumers of tin and zinc which they use in coating sheets and wire, etc.

Two new records were made by the January copper statistics. One of these, total shipments by North and South American refineries, were 157,189 tons as against 134,592 tons in December and 148,943 tons in November. The other record was in United States mine production at 86,681 short tons, the largest in all time, the previous record having been made last October. Production of refined copper last month was 154,472 tons as against 147,905 tons in December and 155,448 tons in November. The net results of the January figures were no change from conditions at the beginning of the year. Thus the gain in refined production was offset by the decline in surplus stocks.

The copper market is resting at present prices after having risen a cent per pound in slightly over a week. A metal dealer, typical of business men of his class who have been hurt by the refusal of copper producers in recent years to sell metal to those other than consumers, pokes fun at the so-called "stabilization" of the copper market, that having been the expressed object for the formation of the Copper Institute and Copper Exporters, Inc. This dealer states that it is the stability of the modern airplane—an airplane which soars constantly.

Members of the National Metal Exchange have petitioned their board of governors for trading in copper as well as tin. However, it is recognized that such trading represents a problem, since producers of copper are anxious to keep the red metal out of the hands of dealers and speculators. It is possible that the metal exchange can locate one or two smaller smelters and refineries who would be willing to sell their metal as a basis for paper transactions. Those who agitate copper trading point out that copper is a metal which appeals to the popular fancy and that more interest would



be shown by commodity houses and the public in general in such dealings.

Domestic consumers of copper are bought up on their supplies through April in most cases and through May in others. The more free selling of June copper has been a recent development. However, foreign customers are not covered beyond March and it is from this class of buyers that the bulk of the business is expected in the next few weeks.

Lead prices at 6.85c, New York, and 6.75c, East St. Louis, are the highest in many months. The recent rise in prices made producers more liberal sellers. Buying has been active all week, for the impression prevails that prices will still be advanced. Practically all large consumers have been in the market and consumption of the malleable metal is very large.

The price of zinc ore is still \$40 per ton in the tri-State district, unchanged since August, though many believed that the new central ore selling agency established at Picher, Okla., would be responsible for a marking up of the price. Prime western slab zinc is quiet at 6.35c per pound, East St. Louis.

The tin market is sluggish and prices fluctuate over narrow margins. Though tin consumption will probably exceed in 1929 by 12 per cent the consumption of last year the production is still very large.

### Coal-Washing Studies in Alabama.

A study of the coal-washing problems of Alabama is being conducted by the Bureau of Mines in co-operation with the University of Alabama at the Southern experiment station of the Bureau, Tuscaloosa. It includes a detailed examination of each important coal seam in the state by float-sink and screen-sizing tests and studies of the systems of coal preparation now in use, both to determine their effectiveness and to develop better methods where the results now obtained are unsatisfactory.

On a committee of coal operators advising the Bureau of Mines engineers in regard to important phases of the work are: M. W. Bush, president, Alabama By-Products Corporation; C. E. Bowron, chief engineer, Gulf States Steel Company; Charles F. DeBardeleben, president, Alabama Fuel and Iron Company; B. F. Roden, president, Roden Coal Company; Milton H. Fiess, vice-president, DeBardeleben Coal Corporation; F. G. Morris, general superintendent of coal mines, Republic Steel and Iron Company; H. J. Thomas, general superintendent of mines, Sloss-Sheffield Steel and Iron Company; C. E. Abbott, general manager of mines, Tennessee Coal, Iron and Railroad Company; J. A. Long, general manager, Woodward Iron Company.

### Pig Iron Demand Not Yet Heavy.

Birmingham, Ala., February 18—[Special.]—Light buying of pig iron has not completely upset the program; the fact that books are well filled with business and sales were made with the understanding that deliveries would be completed by the end of the first quarter, gives encouragement. No sales have been made for the second quarter, according to reports, but books will be opened shortly. Inquiries still indicate there will be a good demand for pig iron and that there will be warrant for continuing eleven blast furnaces on foundry iron.

Quotation base of pig iron is unchanged at from \$16.50 to \$17 per ton, No. 2 foundry and the same price will likely be continued when books are opened on the next quarter. Survey shows that there will be steady work in the foundries and machine shops, the cast iron pressure pipe making will be strong, cast iron soil pipe will meet a fairly good demand with building operations showing increase, stove manufacture will take on a little speed and other interests look for a start towards activity.

The make of basic iron is being held down to meet require-

ments, two of the larger furnaces of the district being banked. The greater number of open hearth furnaces in steel mills are in operation, the total operation of mills being estimated at 80 per cent capacity.

The big plant of the Gulf States Paper Corporation at Tuscaloosa will not be ready for operation until about the middle of March. Paper has been imported and bag making started but the paper making is a little delayed.

Coal mining is still lagging, the railroads not burning a great amount of the product. Coke holds firmly, with \$5 as base price on foundry coke. Shipments to the middle-West are continuing, while local consumption shows little improvement.

Scrap iron and steel is slow. Heavy melting steel consumers are buying only as needs present. This product is held at \$12.50 for the best quality. Dealers in old material repeat the statement that there is no dearth of scrap.

Pig iron and iron and steel scrap quotations follow:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.50 to \$17.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$17.00 to \$17.50; iron of 2.75 to 3.25 per cent silicon, \$17.50 to \$18.00; iron of 3.25 to 3.75 per cent silicon, \$18.00 to \$18.50.

#### OLD MATERIAL.

Old steel axles .....	\$16.00 to \$17.00
Old iron axles .....	16.00 to 17.00
Old steel rails .....	12.00 to 13.00
Heavy melting steel.....	10.25 to 12.50
No. 1 cast.....	14.50 to 15.00
Stove plate .....	13.00 to 13.50
No. 1 railroad wrought.....	9.50 to 10.50
Old car wheels .....	12.00 to 12.50
Old tramcar wheels .....	12.50 to 13.00
Machine-shop turnings .....	9.00 to 9.50
Cast-iron borings .....	9.00 to 9.50
Cast-iron borings (chem.).....	13.00 to 13.50

### Increase in Tin Production and Use.

Increase in both world production and world consumption of tin in 1928 over 1927 is reported by the Department of Commerce through Homer S. Fox, United States Trade Commissioner at London, England. As estimated by Dr. Henry Mace Payne, consulting engineer to the American Mining Congress, the annual tin requirements of the United States are 70,000 tons, while "at the present time practically all of this is imported, save only that which is recovered by de-tinning processes," and Dr. Payne sees no reason why American smelters should not be able to handle domestic cassiterite.

Tin enters into combination with lead and antimony to make what are known as white metals, including babbitt and other anti-friction alloys, and solder. High-grade bearings for high-powered automobiles and airplane engines, Dr. Payne says, contain from 20 to 93 per cent tin, 3½ to 15 per cent antimony and 1½ to 3½ per cent copper, zero to 63½ per cent lead, in varying combinations. Tin foil is in wide use, tin imparts rustle and lustre to silk and also it is utilized in organ pipes and in many other and varied articles, and "no complete substitute has been found," he adds.

Tin ore is to be found, Dr. Payne announces, in North Carolina, South Carolina, Virginia, Alabama and Texas, while lead or zinc, or both, are in evidence in Virginia, North Carolina, South Carolina, Kentucky, Tennessee, Arkansas and Texas.

### Bone Black, Carbon Black and Lampblack.

The total production of bone black, carbon black and lampblack in 1927 is reported by the Department of Commerce as valued at \$14,461,584, an increase of 6.2 per cent over 1925, the previous census year. Production and value in 1927 were: Bone black, 58,159,476 pounds, valued at \$2,466,343; carbon black, 198,429,000 pounds, \$10,955,000; lampblack, 8,800,366 pounds, \$1,040,241. Of 67 establishments reporting, 34 were in Louisiana, 13 in Texas, six in West Virginia and three in Kentucky.

# GOOD ROADS AND MOTOR TRANSPORT

## \$280,000,000 YEAR'S GAS TAX.

### More Miles of Surfaced Roads Made Possible, Thus Stimulating Travel.

By E. E. DUFFY.

Spending in excess of two billion dollars for gasoline in 1928, motorists also contributed more than \$280,000,000 to the country's highway building funds through the gasoline tax, conservative estimates show. This gas tax money was largely used for constructing first class highways which reduced car operating costs by an amount greater than the entire gas tax outlay.

The gasoline tax rate, varying throughout the country from two to five cents a gallon, averages 3.2 cents. Without this tax, which adds but from one-eighth to one-third in a few instances, to the gasoline cost, the mileage of hard pavements would be far less than at present, for the tax represents a large share of the money available for highway improvement beyond the gravel stage.

Although the total gas tax collection figure of \$280,000,000 seems like an immense figure, it actually averages less than \$6,000,000 for each state. It represents but a small portion of the total annual cost of motoring which has been variously estimated from one billion dollars up.

The gasoline tax is now well stabilized as an equitable means for collecting road money. In 1928 only three gas tax changes were made, both upward, while in 1927, 22 changes took place.

A 15 per cent gain in the total gas tax income is estimated for 1928 over 1927. A survey of the figures indicates that although more cars were in operation, the gain for the most part was due to increased use of the automobile. The old belief that the gas tax would lessen travel has been dispelled as tabulations have shown that motoring increases with the mileage of improved roads, largely made possible by the tax.

The gasoline tax counteracts the bad roads tax. A. E. Smith, executive director of the Wisconsin Good Roads Association, recently declared that the unimproved roads of his state exacted a toll equivalent to a gasoline tax of ten cents a gallon.

A two-cent tax became effective in Massachusetts January 1. New York and Illinois are the only states without gas taxes, but in both, consideration is being given to adoption of this method of raising funds.

### Straight-Eight Bus Announced.

The Studebaker Corporation of America, South Bend, Ind., announced recently a bus chassis powered by a straight-eight motor. Better performance, smoother operation and greater stamina is claimed for this bus chassis.

The new Studebaker buses are offered in two sizes, 158-inch and 184-inch wheelbases, and in three types. Some important features of these new buses are: a 115 horsepower straight-eight motor; dual carburetion which is said in effect to give two carburetors and two manifolds, each feeding four cylinders; a semi-automatic choke; large oversized generator; sturdy mountings; motor-driven fuel pump; improved and heavier fan mounting; weather-proof ignition. Three or four speed transmissions are optional.

The chassis is unusually strong and provides extra factors of safety and strength throughout without sacrificing riding comfort, say the makers. On the 184-inch special and heavy duty chassis, there are two tubular cross members and five pressed steel cross members. On the 158-inch junior chassis there is one tubular cross member and five pressed steel cross members. Heavier and wider springs carried in extra heavy shackles with big spring bolts are an important contribution

to riding comfort. The rear springs are 56 $\frac{3}{4}$  inches long and 3 inches wide and the front springs 38 inches long and 2 $\frac{1}{2}$  inches wide. They are of the semi-elliptic type.

A braking system feature which affords increased ease of action and greater driving safety is the use of Westinghouse vacuum brakes as a unit in the four-wheel system.

### \$700,000 Street Improvements for Richmond.

The expenditure of \$700,000 for street improvements in Richmond, Va., is involved in a tentative program calling for smooth paving on 16 blocks in 1929. The major part of the expenditure will be provided in a proposed bond issue of \$500,000 and it is expected that \$200,000 will be available from the general fund, the latter to be used for curb and gutter, gravel and grading on residential streets.

### Officers for Tennessee Road Builders' Association.

Nashville, Tenn.—John L. Humbard, of the John L. Humbard Construction Co., Knoxville, has been re-elected president of the Tennessee Road Builders' Association, with offices in this city. Other officers for the ensuing year include: C. B. Wilson, of the Gould Contracting Co., Nashville; J. M. Fitzwater of the Southern Paving Construction Co., Chattanooga; and S. K. Jones, of the S. K. Jones Construction Co., Memphis, vice-presidents, and C. H. Simpson, secretary-treasurer.

### Southeastern Road Show and Conference.

The first annual Southeastern Road Show and Conference will be held at Jacksonville, Fla., for five days beginning March 19, under the auspices of the Florida Road Builders Association. Reservations already have been made by a large number of manufacturers and distributors of road equipment, it is said, and it is anticipated that the show will be one of the most representative regional exhibitions ever held.

The Show should be of particular interest to road builders, contractors, engineers, city, county and state road department officials and others, who will have an opportunity to view in one collection all kinds of road building machinery from giant cranes and power shovels to reinforcing steel and wire. A 6-acre demonstration field has been provided for the use of exhibitors who desire to put their equipment in actual operation.

Invitations have been directed to the road departments of the states to be covered, including Florida, Georgia, Alabama, Mississippi, Tennessee, Virginia, North Carolina and South Carolina, and special invitations have been extended to road builders of the Republic of Cuba. Acceptances have been received from several of the state highway departments and it is expected that all will send representatives. Contractors, engineers, county commissioners, city officials and street department heads are being invited by direct mail. Prof. C. C. Brown of the College of Engineering, University of Florida, Gainesville, is directing the preparation of an extensive program covering all phases of construction, materials and machinery and expects to have it ready for distribution within a short time.

Officials of the Florida Road Builders Association are: President, J. J. Hedrick, Tampa, president of the Florida Paving Contractors Association; Vice-President, Walter J. Bryson, Jacksonville, president of the W. J. Bryson Paving Co.; Treasurer, Elliott W. Butts, manager of the Jacksonville Chamber of Commerce; Secretary-manager, Ike Parrish, Jacksonville.



## TEXTILE

### BIG EXPANSION FOR GOODYEAR CLEARWATER MILLS.

#### 18,800 Additional Spindles, 80 New Homes, Lights, Sewers, Water and Sidewalks Planned.

Plans for a big expansion of the Goodyear Clearwater mills at Cedartown, Ga., have been announced by the Goodyear Tire & Rubber Co., of Akron, Ohio, the enlargement to embrace the installation of 18,800 additional spindles, increasing the total spindleage to 50,800, and the construction of 80 additional dwellings for operatives. No addition will be erected to the mill building, as the company has adequate floor space for the additional equipment, which will be installed at once. Lighting facilities, sewers, water and sidewalks also will be provided. Fabric from the Clearwater Mills will be used by the tire manufacturing plant under construction at Gadsden, Ala., for the Goodyear company, the product to be hauled over a new road to be built by the State.

### Completing 133 Dwellings Out of a Total of 1000 Dwellings Planned for Mill Village of \$4,000,000 Rayon Plant.

A number of brick houses have been completed in the mill village under construction at Rome, Ga., for the American Chatillon Corp., of New York, which is building a \$4,000,000 rayon plant at Rome. A. K. Adams & Co., Atlanta, general contractors for the dwellings, are said to have 500 workmen engaged in finishing the first 133 houses, for which 150 carloads of building material have been used. Streets in the mill village are being graded and sidewalks and curbing are being constructed by the Southern Paving & Construction Co., which is working a large force and employing much equipment.

A total of 1000 dwellings will be erected in the village to accommodate a force of more than 2000 operatives to be employed in the plant. The village will be complete in itself, having its own schools, churches, community building, theater, gymnasium, library, recreational center, hospitals, police and fire departments. All houses will be of brick, with concrete floor porches, and will be equipped with electric lighting, steam heat, bath rooms and other modern facilities. They will be rented to workmen at 50 cents per room per week.

The Lockwood Greene Engineers, Inc., New York, are engineers for the plant, while the Hughes-Foulkrod Co., Philadelphia, is handling general contract on that project.

### 475 Dwellings Contracted for Goodyear Company.

Gadsden, Ala.—General contract for the erection of 475 dwellings for employes of the Goodyear Tire & Rubber Co., of Akron, Ohio, which is erecting a \$7,000,000 tire unit here, has been awarded to the Batson-Cook Co., of West Point, Ga., by the Gadsden Land & Building Corp., of which Judge Louis L. Herzberg is president. The houses will be of slag brick, stucco and frame and will be equipped with baths and sinks. Robert & Co., Inc., of Atlanta, are the architects and engineers and E. S. Draper, Charlotte, N. C., landscape architect. Brick will be supplied by the Agricola Brick Co., Gadsden.

### Hickory-Grove Hosiery Company Incorporated.

Capitalized at \$50,000, the Hickory-Grove Hosiery Co., Hickory, N. C., has organized with C. S. Grove, president; E. D. Yoder, secretary, and C. Sherman Grove, Jr., manager. The company will install 30 knitting machines for the production of men's fancy half hose, employing 40 operatives.

### Extension for Magnet Mills.

Clinton, Tenn.—The Magnet Mills, Inc., awarded general contract to Potter & Shackelford, Inc., of Greenville, S. C., for the construction of a finishing building, of brick and concrete with tar and gravel roof. It will be equipped with a sprinkler system. J. E. Sirrine & Co., of Greenville, are the engineers.

### Contract for Rock Hill Hosiery Mill.

General contract for the erection of a proposed plant at Rock Hill, S. C., for the Rock Hill Hosiery Building Co. has been awarded through the offices of Lockwood Greene Engineers, Inc., Charlotte, N. C., to J. A. Heslep, Columbia, S. C. The mill building will be of brick, steel and concrete construction, 1 story, with provision for future extensions. The product of the hosiery company will be full-fashioned hose.

### Second Unit for American Glanzstoff Corporation.

Plans for the second unit of the big rayon plant at Bemberg near Elizabethton, Tenn., for the American Glanzstoff Corp. have not yet been completed, according to Dr. A. Motworff, president. O. Oppenlaender will be in charge of construction of the second unit, which is expected to begin early in the Spring.

### Will Sell Direct at Wholesale Prices.

After several years devoted to building up a textile industrial plant in Korea, C. H. Deal, president of the Character Products Company, Inc., Salisbury, N. C., plans hereafter to sell products of the Model Mill of his company at Spartanburg direct to the consumer. "Character cloth," Mr. Deal writes to the MANUFACTURERS RECORD, "is now being made in shirtings and dress goods, which we are to make up into shirts, pajamas, children's garments, etc., and sell by parcel post direct to the individual consumer at wholesale prices." The company is said to have 10,000 such customers at the outset and expects to have 100,000 by the end of the year. B. C. Schoolfield is vice-president and Fred Van Wagenen is secretary-treasurer. Mr. Deal has sold the plant in Korea to local people whom he had trained.

### Marion Hosiery Mill Industry Expanding.

Marion, N. C.—A total of \$97,000 has been invested in the hosiery mill industry in Marion, N. C., during the past five months, according to the Chamber of Commerce, of that city. The Novelty Hosiery Mill, owned by W. K. M. Gilkey, was started in August with 12 Banner automatic machines, to which 24 additional machines of the same type were added a month later, for making men's fancy hose. S. H. Yancy began operation of the Sevier Knitting Mill January 1, 1929, with 15 Scott & Williams automatic machines and expects to add 60 new machines in units of 15, for the manufacture of men's fancy hose.

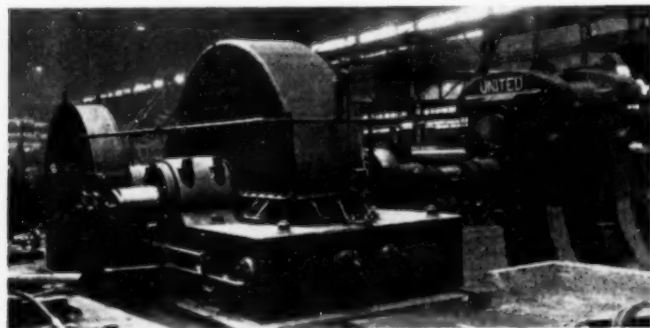
C. R. McCall, E. W. Parker and L. R. McCurry started the Mopar Hosiery Mills February 4, 1929, with 53 B-5 machines and expect to add other machines soon. The plant makes men's fancy hose. The Lake City Hosiery Mill, of which J. H. Tate of Marion, is secretary and treasurer and J. A. Lichty, of York, Pa., president and superintendent, will soon begin operations with 24 Banner automatic machines for the production of 250 dozen pairs of girls' fancy golf hose daily and contemplate adding new machinery later. C. E. James, vice-president of the Chamber of Commerce and a member of the industrial committee, was active in securing the projects.

## NEW AND IMPROVED EQUIPMENT

### Herringbone Gear Reducing Unit.

Gears and Forgings, Inc., Cleveland, Ohio, have installed a Herringbone gear reduction drive in the plant of the Timken Roller Bearing Company at Canton, Ohio. This unit is regarded as a step forward, in demonstrating the practicability of roller bearings on equipment of this type. It is completely equipped with Timken tapered roller bearings on both pinion and gear shafts.

It was designed and built by Gears and Forgings, Inc., to transmit power from a 1500-horsepower, 4000-horsepower



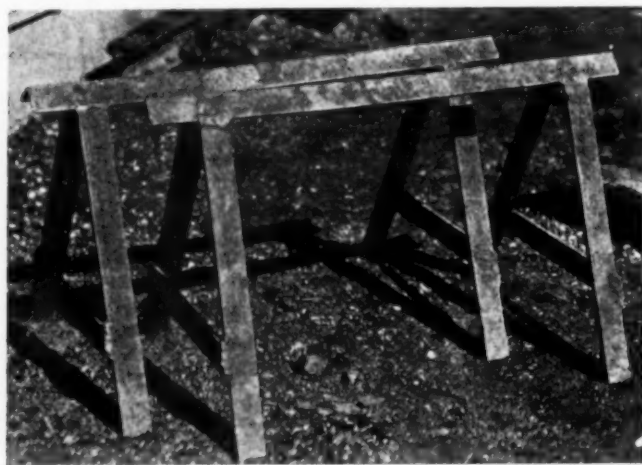
A RECENT HERRINGBONE GEAR INSTALLATION AT CANTON, OHIO.

peak loads, A. C. motor at 360 R. P. M. to two stands of 28-inch bar mills. Two eight-foot flywheels, each weighing 15,000 pounds, are mounted on the pinion shaft to take care of the peak loads resulting from the mills.

Gears and Forgings, Inc., are building a 1000-horsepower Herringbone reduction unit for a seamless tube piercing mill for Timken's new tube mill and a Herringbone gear tandem sheet mill drive for the new tin mill of the Columbia Steel Mill, Pittsburg, Cal.

### Welded Iron Carpenter Horses.

In referring to the fact that most plants or shops can use carpenter's horses and that the trouble with most carpenter's horses is that they are usually made of wood and have a tendency to break or spread after they have been subjected to any hard usage, the Linde Air Products, New York, says



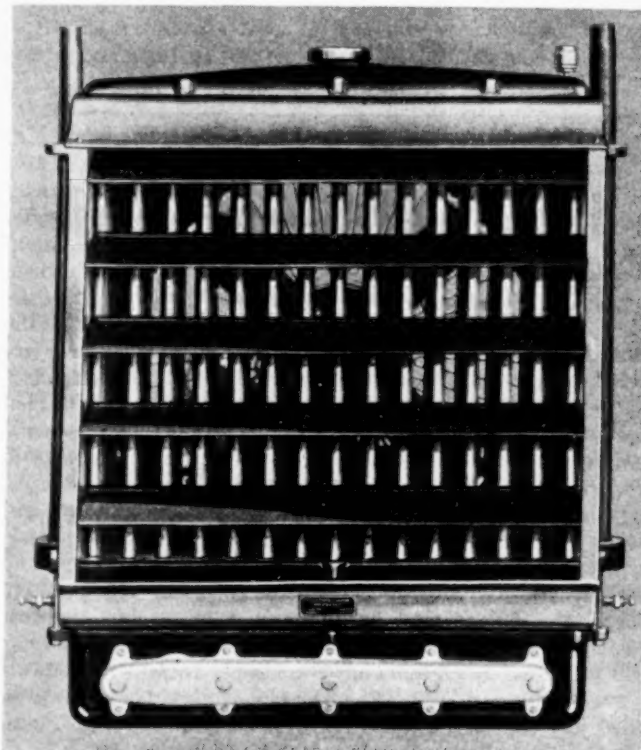
CONSTRUCTED FROM SCRAP ANGLE IRON.

that the plant welder of a large Eastern shop, realizing these facts, constructed a pair out of some scrap angle iron. "It was a simple task to oxweld these pieces of scrap together," the statement adds, "and the pieces were all welded with butt-type joints and a small amount of welding rod was added for extra strength."

### Industrial Unit Uses Gas Fuel.

An industrial unit gas heater said to embody some new features of low initial cost, economy, efficiency and compactness, has been put on the market by the General Gas Light Company, Kalamazoo, Mich., as the Humphrey Industrial Unit. The use of gas as a fuel is said to render it available for many purposes hitherto unknown to heaters of the same general type. Heating capacity of each unit is approximately the equivalent of 400 square feet of ordinary steam radiation, the heater fan delivering 1800 cubic feet of heated air per minute. No connection is needed, except the pipe which conveys gas to the burner and it is easily moved when it becomes necessary to change its position to make way for rearrangements of factory space. Also, it is designed to be hung from the ceiling, as it is intended for heating large spaces.

Above a bank of special Ni-Chrome gas burners is a battery of brass tube radiators, so arranged that heat from the burner is equally distributed up through the tubes, the com-



FRONT VIEW OF HEATER.

bustion products being carried away by a perforated cap flue, or a ceiling flue, if the room to be heated is small. Behind the tubes is a fan, propelled by a  $\frac{1}{8}$  horsepower motor. Air drawn in by the fan is driven across the heated tubes, louvers at the front deflect the heated air to any desired level and the fan also delivers air under pressure to the burner box, thereby increasing burner efficiency. Heat control can be maintained by a thermostat, arranged to actuate the motor; the motor in turn being equipped with a governor that turns the gas on and off as required to support an even temperature. Pilot lights on either side of the burner take care of ignition and control a simple thermostatic switch that automatically prevents the motor from operating in case the pilots are extinguished, and keeps the gas supply turned off until the pilots are relighted. Upkeep consists chiefly of oiling the moving parts and cleaning the radiator tubes from time to time. All parts of the unit heaters are independently removable in event of replacement. No licensed fireman is needed. Production of the new heaters is now well under way.

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# CONSTRUCTION DEPARTMENT

## EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

## DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$40.00 a year.

### Airports, Airplane Plants, Etc.

Ala., Montgomery—Office of City Comm. receives bids Mar. 4 for erecting airplane hangar for city airport. See Want Section—Bids Asked. 12-13-28

Fla., Daytona Beach—City leased 90-acre tract, immediately south of city, fronting on Halifax River, for airport; Pitcairn Aviation, Inc., Land Title Bldg., Philadelphia, Pa., has contract for air-mail service, to begin March 1; operate, Daytona Beach to Atlanta, Ga., and connect with plane from New York; erect hangar and make other improvements. 2-14

Fla., Orlando—Stutz Blanco Airplane Corp. organized with Harry C. Stutz, Pres.; Frank Blanco, V.-Pres., also V.-Pres., Commercial Aircraft Co., Bridgeport, Conn.; construct large and small planes and engines at Orlando and Bridgeport; planes to be constructed at Commercial Aircraft Co. and assembly plant to be erected here; when completed use Bridgeport plant for construction of airplane engines. 2-14

Ga., Columbus—City Comm. tentatively agreed upon plans for \$1,200,000 bond election May 18; \$30,000 to be used for airfield. See Financial News.

Ky., Russellville—City acquired 65-acre tract on Dixie Highway; leased to Dept. of Commerce for aviation field; propose to condition field and place beacon lights and standards for emergency landing. 2-14

Mo., St. Louis—Transcontinental Air Transport Co., C. M. Keys and Co., 60 Broadway, New York City, let contract to Mississippi Valley Structural Steel Co. for 200 tons fabricated structural steel hangars. 2-7

Mo., St. Louis—Guardian Aircraft Co., Richard F. Hardin, Ch. Engr., leased space in old Koken plant, Texas and Victor St.; establish airplane manufacturing plant; plans manufacturing 2-seater light plane with top speed of 100 mi. an hour and cruising range of 45 mi. per hour. 12-13-28

Mo., St. Louis—George B. Heath, Ch. Electrical Engr. for City, prepared plan for \$100,000 lighting system for municipal airport; to be operated by single control board. 12-13-28

S. C., Columbia—City, L. B. Owens, establishing airport on site known as Melton-Belser-Kohn tract, 3 mi. east of State House, containing between 175 and 200 acres. 12-13-28

Tex., Austin—City, Adam R. Johnson, Mgr., allotted \$75,000 from \$750,000 bond issue, for improvements at airport; includes lighting and other equipment. 12-13-28

Tex., Brownsville—City, A. B. Cole, Mayor, let contract to Orange Car & Steel Co., Orange, for hangar at municipal airport at \$20,192. 1-31

Tex., Tyler—City, Lee H. Powell, Mgr., voted \$175,000 bonds; \$25,000 for municipal airport. 1-31

### Bridges, Culverts and Viaducts

#### Proposed Construction

Ark., Cotter—State Highway Dept., Little Rock, plans starting preliminary work by Mar. 1, on State Highway Bridge across White River, at Cotter, connecting Baxter and Marion Counties.

Fla., Melbourne—State Road Dept., Robert W. Bentley, Chmn., Tallahassee, plans Dixie Highway Bridge over Crane Creek, at Melbourne.

Louisiana—Louisiana Highway Comm., Baton Rouge, received low bids for 2 bridges and 4 culverts: Winn Parish—bridges over and approaches at Dugdemona Bayou, Winnfield-Olla Highway, Gannett, Seelye & Fleming Engineering Co., Inc., Mansfield, \$15,916; Bienville—Bossier Parishes—over Loggy Bayou, Ringgold-Shreveport Highway, Gannett, Seelye & Fleming Engineering Co., Inc., \$28,487; Franklin Parish—4 conc. culverts

on Winnsboro-St. Joseph Highway; John M. Middleton, Hammond; L. R. Ames, State Highway Engr. 1-17 and 1-24

Md., Cumberland—State Roads Comm., Baltimore, making test excavations along abutments of one-way bridge across Braddock Run, off National Turnpike, Mt. Savage road, preparatory to two-way bridge at that point; G. Clinton Uhl, Chmn. 1-17 and 1-24

Md., Easton—War Dept., Washington, D. C., approved plans of Baltimore and Eastern R. R. Co., T. J. Skillman, Ch. Engr., Philadelphia, Pa., to reconstruct bridge across Choptank River, near Easton. 1-17 and 1-24

Mo., Kansas City—Jackson County, Leo E. Koehler, Highway Engr., receives bids Feb. 26 for 3 bridges on Colborn road, Jefferson Highway to Sni Mills: Over East Fork of Little Blue, 41,450 lb. rein. steel, 158,510 lb. fabricated struct. steel, bridge at Sta. 412 plus 17, 24,610 lb. rein. steel, 44,950 lb. fabricated struct. steel; bridge over Sni-Bar Creek, 33,107 lb. rein. steel, 1,130,515 lb. fabricated struct. steel; Stayton & Veatch, Const. Engrs., 508 Interstate Bldg. 1-17 and 1-24

Tennessee—Dept. of Highways and Public Roads, H. S. Berry, Nashville, contemplates 3 bridges: Over Cumberland River, Hales Bar; over Tennessee River, on highway between Rhea and Meigs Counties; over Cumberland River, Highway No. 49, between Ashland and Charlotte; estimated cost \$1,500,000; T. C. McEwen, Engr. 1-17 and 1-24

Tex., Big Spring—Howard County Commrs. Court receives bids Feb. 25 for 250-ft. conc. earth viaduct, 24 ft. across Texas & Pacific Ry. tracks, Highway No. 9; cost \$150,000; H. R. Davenport, County Judge. 11-29-1928

Tex., Fort Worth—City, O. E. Carr, Mgr., plans 506-ft. rein. conc. bridge at end of Royal St., cost \$17,000; D. L. Lewis, Engr. 1-17 and 1-24

Tex., Midway—War Dept., Washington, D. C., approved plans State Highway Comm., Austin, for bridge over Trinity River at Clapp's Ferry, near Midway, under state law. 1-17 and 1-24

Tex., Port Arthur—Bridge—War Dept., Washington, D. C., approved revised plans for bridge across Sabine-Neches Canal, Port Arthur; 200 ft. horizontal clearance; cost \$300,000 to \$500,000; W. O. Bower, City Engr. 12-13

Tex., San Antonio—City, C. M. Chambers, Mayor, received low bid from J. G. Jeffrey, 2123 Buena Vista St., \$22,422, for 86-ft., 60-ft. wide, rein. conc. Josephine St. Bridge; I. Ewig, City Engr. 1-17 and 1-24

Tex., Fort Worth—State Highway Dept., R. S. Sterling, Chmn., Austin, preparing plans for Brazos River Bridge, on State Highway No. 10, Fort Worth-Granbury road, near Granbury; replace present span; Gibb Gilchrist, State Highway Engr.; G. G. Wickline, Bridge Engr. 1-17 and 1-24

Virginia—State Highway Comm. receives bids for 4 bridges. See Roads, Streets, Paving.

#### Contracts Awarded

Ark., Camden—City let contract to Horton-Price Construction Co., Camden, \$29,827, for fill to Ouachita River Bridge.

Ga., Reynolds—Central of Georgia Ry. Co., C. E. Weaver, Ch. Engr., Savannah, let contract to Virginia Bridge & Iron Co., Roanoke, for bridges over Flint River, near Montezuma and near Reynolds; work will be done by company's forces. 2-14

Miss., Columbus—Lowndes County Bd. of Suprs., John J. Richards, Clk., let contract to Hampton, Kinnard & Hampton, Jackson, for toll bridge across Tombigbee River.

Miss., Port Gibson—Clalborne County Bd. of Suprs., let contract to Kirby-Williams Steel Works, Jackson, Tenn., for steel bridge over Barnes Creek, Dist. No. 1.

N. C., Asheville—Buncombe County Commrs. let contract to Hobbs, Peabody Const. Co., 1902 Dilworth Rd., W., Charlotte, \$27,351, for Hominy Creek Bridge on Enka Highway.

Okla., Boley—Okfuskee County Commrs., Okemah, let contract to W. P. Reddick, Okemah, \$22,480, for 3-span, 74-ft. I-beam bridge.

Tex., Lubbock—City, H. D. Woods, Mayor, let contract to Panhandle Construction Co., \$97,222, for 950-ft. underpass at Santa Fe Ry. tracks, on East Broadway; Rein. conc. walls and abutments, 14-ft. vertical clearance, two 15-ft. drives, two 4-ft. walks, 1,200 ft. brick paving on conc., from entrance to other side of underpass. 1-3

Tex., Waco—City, E. E. McAdams, City Mgr., let contract to Hannah Construction Co., \$8745, for 6 culverts in various sections of city; J. H. Strange, City Engr.

### Canning and Packing Plants

N. C., Plymouth—B. D. Griffin & Co., Milwaukee, Wis., acquired building; will remodel for canning plant.

Tenn., Trenton—Hugh T. Bennett, Sec., Chamber of Commerce, contemplates erecting canning plant.

Tex., Houston—Braden Steel & Winch Co., 3 U. Madison St., Tulsa, Okla., has contract for struct. steel for \$60,000 canning plant at Elena Farms on Houston-Beaumont Highway for Tyrrell & Garth Investment Co., Beaumont; 1 story, 60x210 ft.; foundation work by J. T. Roberts.

### Clayworking Plants

Mo., Mexico—Stupp Brothers Bridge and Iron Co., Weber Road, St. Louis, has contract for 500 tons fabricated struct. steel for brick plant for A. P. Green Fire Brick Co.; Crescent Steel Co., 120 E. Loughboro St., St. Louis, will furnish steel sash; Federal Cement Tile Co., 608 S. Dearborn St., Chicago, Ill., 65,000 sq. ft. of cement roof tile; plant will contain tunnel kiln and dryers of latest design; equipped with conveyors and cranes; H. K. Ferguson, Co., Engrs., and Bldrs., Hanna Bldg., Cleveland, Ohio. 1-3

Tex., Palmer—Barron Brick Co., capital \$250,000, incorporated; Y. Barron, A. M. Smith.

### Coal Mines and Coke Ovens

Mo., Liberal—Hy-Test Fuel Co., capital \$50,000, incorporated; J. R. Todd; general coal mining.

### Concrete and Cement Plants

Md., Annapolis—Norman R. Bell acquired tract 150x229 ft., Compromise St., near Duke of Gloucester St., fronting on city dock; erect cement plant.

### Cotton Compresses and Gins

Ark., Antioch—Clarence Cochran and Bill Short, both Butlerville, construct \$14,000 cotton gin.

Ark., Salem—Ed Wolf and J. M. Harkle-road plans cotton gin.

La., Bonita—J. B. Shackelford, McGinty, construct cotton gin on Lone Star Highway; fireproof; electrically equipped.

La., Glenmora—L. O. Wade & Co., Eunice, erect cotton gin; operate as Glenmora Cotton Co.

Mo., Naylor—Goddin Big Boll Cotton Co., capital \$100,000, incorporated; H. E. and Glenn Goddin.

N. C., Laurinburg—Planters Gin Co., incorporated; H. P. Monroe, J. A. McMillan.

Tex., Lindale—Mrs. Carrie Copeland will move gin plant from Sulphur Springs to here.

### Cottonseed-Oil Mills

La., New Orleans—Gulf & Valley Cotton Oil Co., Inc., capital \$600,000, incorporated; A. D. Geoghegan, 70 Audubon Blvd.; T. O. Asbury, 1922 State St.; organized as subsidiary of Wesson Oil & Snowdrift Co.; acquired fiscal assets of Gulf & Valley Cotton Oil Co., Ltd. 2-14

### Drainage, Dredging and Irrigation

Maryland—Chaliborne-Annapolis Ferry Co., Emerson C. Harrington, Pres., Annapolis, planning canal across Kent Island;  $\frac{1}{4}$  to 1 mi., 200 ft. wide, 15 to 16 ft. deep; work to be done by Arundel Sand and Gravel Co., Pier 2, Pratt St., Baltimore; preparing survey.

Okl., Cherokee—County Commrs. let contract to Concho Construction Co., El Reno and Oklahoma City, for Medicine River drainage project; will reclaim thousands of acres.

Tex., Corpus Christi—Intracoastal Canal Association of Louisiana and Texas, Roy Miller, active V.-Pres., reported, begin construction of intracoastal canal in both Louisiana and Texas within next few months; completed location survey for route from Galveston to Corpus Christi and data being checked in office of Maj. M. P. Fox, Dist. Engr., Galveston; Government probably call for bids within few weeks. 5-10

Tex., Eagle Pass—Maverick County Water Improvement Dist. No. 1 voted \$1,800,000 bonds for widening canal of proposed irrigation district.

Tex., Harlingen—Cameron County Water Improvement Dist. No. 1, receives bids Feb. 25 for conc. syphon under Arroyo Colorado. See Want Section—Bids Asked.

Tex., Houston—U. S. Engr. Office, Galveston, has low bid for dredging Sections One and Two in Houston Ship Channel between Morgan Point and Bolivar Roads from Arundel Corp., Pier 2, Pratt St., Baltimore, Md., 7,700,000 cu. yd. at \$462,000; Maj. Edgar Jadwin, Ch. Army Engr., allotted additional fund of \$275,000 for maintenance dredging work in Houston Ship Channel across Galveston Bay from Morgans Point to Bolivar Roads. 2-14

Tex., San Juan—Hidalgo County Water Improvement Dist. No. 2, Clay Everhard, Pres., receives bids until Feb. 28, for constructing approx. 3,000,000 sq. ft. of concrete lining.

Va., Norfolk—War Dept., Washington, D. C., approved allotment of \$500,000 for cutting straight 22-ft. channel through Rock-landing Shoals, in James River; U. S. Engr. Office has low bid from American Dredging Co., Philadelphia, Pa., for dredging at \$464,635.73. 2-7

### Electric Light and Power.

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Alabama—Alabama Power Co., Birmingham, is not negotiating for River Falls Power Co., River Falls, as lately noted. 2-7

Ga., Columbus—Stockholders of Columbus Electric and Power Co. vote March 6 on increasing authorized preferred stock of company from \$6,500,000 to \$10,500,000.

Ky., Burkesville—Cumberland Public Service Co., will install additional equipment in electric and ice plant; let contract to Fairbanks, Morse & Co., 517 W. Main St., Louisville, Ky., for 50 kv.-a. alternator direct connected to present 60 h. p. engine; 120 h. p. engine and 90-kv.-a. generator. See Want Section—Machinery and Supplies.

La., Alexandria—See Ice and Cold-storage Plants.

La., Baton Rouge—Baton Rouge Electric Co., offering \$1,000,000 first mortgage 5% gold bonds, Series B, through Stone & Webster and Blodget, Inc., Blair & Co., Inc., Chase Securities Corp., and Brown Brothers & Co., all New York; company furnishes entire lighting and power, gas electric railway and bus business in Baton Rouge and electric power and lighting in Port Allen, and 7 other communities north of Baton Rouge.

Md., Baltimore—Directors of Consolidated Gas, Electric Light and Power Co., Lexington Bldg., voted to offer 95,570 additional common shares at \$60 a share, to holders of record Mar. 8, in ratio of 1 new share for each ten shares held, and voted to offer 10,000 shares to employees at \$70 a share, subject to approval of Maryland Public Service

Comm.; company applied for authority to issue 10,000 shares of 5%, Series A, preferred stock of \$100 par to be offered on deferred payment basis; proceeds to be used to finance plant extensions.

Mo., Sikeston—Missouri Utilities Co., controlled by Community Power and Light Co., Planters Bldg., St. Louis, reported, considering installing white way system in business district.

Oklahoma—Texas-Louisiana Power Co., Fort Worth Club Bldg., Fort Worth, Tex., reported, acquired plants and distribution systems of Inland Utilities Co., 1310 Liberty St., Kansas City, Mo., Western Oklahoma and Northwestern Texas, including central power generating plants at Perryton and Guymon, local plants at Higgins; distribution systems at Follett, Darrouzett, Booker, Spearman and Goodwell.

Okl., Hooker—Panhandle Public Service Co., Buffalo, reported, acquired city power and light plant subject to ratification by people.

Okl., Tonkawa—City let contract to Fairbanks, Morse & Co., 900 S. Wabash Ave., Chicago, Ill., for 3 engines, generators, exciters, switchboard, oil storage tank, etc. 2-14

Okl., Tonkawa—City voted \$128,198 electric light purchase bonds. 1-10

S. C., Blacksburg—Southern Public Utilities, Charlotte, N. C., negotiating for city light and power plant; will expend \$100,000 on improvements.

S. C., Columbia—Richland Power Co. organized with Dr. C. Baxter Owings, German-town, Pa., Pres.; O. Y. Owings, Jr., Sec.-Treas., 1002 Elmwood St., Columbia; reported, plans construction of hydro-electric project with 30,000 primary h. p. and 50,000 to 75,000 h. p. ultimate development on Saluda River at Lortick's Shoals, mile from city limits.

Tennessee—Merger announced of Electric Bond and Share Co. and Electric Bond and Share Securities Corp., both 2 Rector St., New York, under name of Electric Bond and Share Co.; stockholders will meet to consider merger March 12, company will have capitalization of 14,500,000 shares divided into 1,000,000 shares of \$6 preferred stock, 1,000,000 shares of \$5 preferred stock and 12,500,000 shares of common stock, all of par value; Electric Bond and Share Co., supervises number of Southern utilities, including, Memphis Power and Light Co., Memphis, Tenn.; Knoxville Power and Light Co., Knoxville; Houston Lighting and Power Co., Houston, Texas; Carolina Power and Light Co., Raleigh, N. C.; Birmingham Electric Co., Birmingham, Ala.

Texas—Panhandle Power and Light Co., Borger, reported, construct 66,000 volt line to Wheeler, with radiating lines to serve Kelton, Zybach, Gageby and new towns along Santa Fe Railroad in northern section of county.

Tex., Austin—City let contract at \$152,300 to Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., for delivery and installation of 7500 kw. turbo generator and condenser at power plant.

Tex., Blanco—Texas Power and Light Co., Dallas, construct power plant.

Va., Radford—City votes Feb. 26 on \$175,000 bonds to rebuild power dam on Little River. See Financial News.

Va., Radford—Appalachian Electric Power Co., Bluefield, W. Va., subsidiary of American Gas & Electric Co., 30 Church St., New York, reported, appropriated \$11,000,000 for construction of hydro-electric generating station on New River near here; installed capacity 80,000 k. w.; impound lake 21 miles long. 3-8

Va., Richmond—See Ice and Cold-Storage Plants.

Va., Tazewell—Appalachian Electric Power Co., Bluefield, W. Va., reported, acquired right of way for transmission line Amonate to North Tazewell; soon begin construction. 1-24

W. Va., Elkins—City votes March 5 on \$135,000 bonds. 1-3

W. Va., Wheeling—George W. Lutz, H. P. Corcoran, Chamber of Commerce, interested in extension white way system in business district.

### Foundry and Machine Plants

Ala., Bessemer—United Engineers and Constructors, Inc., 1401 Arch St., Philadelphia, subsidiary of United Gas Improvement Co., receiving bids for parts of plant for Pullman Car and Manufacturing Corp., C. A. Liddle, Pres., Chicago, Ill., including struc. steel. 2-7

Tenn., Cleveland—Dixie Foundry Co. let contract to Converse Bridge & Steel Co., Chattanooga, for furnishing steel for rebuilding

burned foundry; 1 story, brick, steel, cover  $2\frac{1}{2}$  acres; install automatic sprinkler system. 1-14

Va., Richmond—Richmond Car Works, Inc., J. C. Snyder, V.-Pres. and Gen. Mgr., subsidiary of Standard Steel Car Co., Frick Bldg., Pittsburgh, Pa., going forward with expansion program involving \$500,000; machine shop completed; 3 tracks, 700 ft. long, to be covered to provide space for painting and car building; erect number of dry kilns and woodworking plant; lay conc. floors in main steel shop; erecting truck, wheel and axle shop; work by company's force after plans by engineers of Standard Steel Car Co. 12-20-28

### Gas and Oil Enterprises

Ark., Little Rock—Finley-Turner Tire & Service Co., Fifth St. and Broadway, construct two 18,000 gal. capacity tanks at Fifth and Oak Sts.

D. C., Washington—Washington Gas Light Co., 411 Tenth St., N. W., erect \$12,500 steel tank, 13th and Water St. and Virginia Ave., S. E.

Ky., Louisville—Highland Oil Co., capital \$25,000, incorporated; J. O. Yenner, 1610 Bardstown Road.

La., Alto—Industrial Gas Co., Major W. J. Parkes, V.-P., subsidiary of Arkansas Natural Gas Corp., Ardis Bldg., Shreveport, reported, erect carbon black plant; capacity 100,000,000 cu. ft. daily.

La., Monroe—Century Carbon Co. of Illinois, R. I. Wisnick, Pres., 251 Front St., New York City, reported, construct \$600,000 carbon black and gasoline extraction plant near Crew Lake in Richland Parish; four units will utilize 20,000,000 cu. ft. of gas daily for carbon black manufacture; install modern equipment; construction to begin in about 30 days.

Mo., Maplewood, Sta. St. Louis—Shamrock Oil and Gasoline Co., 4158 Geraldine St., acquired 75,000 gal. capacity building of Litsinger Oil Co., 7900 Manchester Ave.; also acquired site at Greer and Goodfellow Aves. for bulk storage and lubricating plant.

Mo., Poplar Bluff—Public Service Comm., Jefferson City, authorized Missouri Natural Gas Co., Dubuque, Iowa, to construct and operate gas plant; erect distribution system in city and subdivisions of Kellytown and Vinegar Hill; cost \$204,462. 1-24

Mo., Sedalia—Milton Oil Co., E. H. Milton, Pres., increased capital, \$110,000 to \$500,000.

Okl., Oklahoma City—Mid-Kansas Oil and Gas Co., subsidiary of Ohio Oil Co., Findlay, Ohio, reported, acquired Ramsey Petroleum Corp.'s holdings of 290 acres and 2 drilling wells in oil field.

Okl., Wewoka—Wewoka Refining Co., capital \$100,000, incorporated; James E. Dunn, M. E. Michaelson.

Tex., Austin—People's Light and Power Corp., 27 William St., New York, offering \$6,000,000 5% convertible gold debentures, Series of 1979 through G. L. Ohrstrom & Co., Inc., Brown Brothers & Co., both New York; Coffin & Burr, Inc., Boston, Mass.; company through its subsidiaries supplies public utility service in various territories; Austin Gas Co., is subsidiary of People's corporation.

Tex., Beaumont—Jefferson Oil Co. incorporated; John E. Heartfield, 1075 Ave. C.

Tex., Burkburnett—Noble Oil and Gas Co., Wright Bldg., Tulsa, Okla., add cracking unit to refinery.

Tex., Hempstead—Murchison Oil Co., American Exch. Bank Bldg., Dallas, C. W. Murchison, Pres., establish natural gas system.

Tex., Houston—Navarro Oil Co., Humble Bldg., increased capital \$1,500,000 to \$1,800,000.

Tex., Liberty—Dixie Gas and Fuel Co., Es-person Bldg., Houston, granted natural gas franchise.

Tex., McCamey—Shell Petroleum Co., Shell Bldg., St. Louis, Mo., reported, closed contract with West Texas Utilities Co., Abilene, for electrification of pipe line from McCamey oil fields to Houston; will double capacity of pumping stations at McCamey and Iraan and operate 3 additional stations nr. Junction; line will be 500 miles long with capacity of 40,000 bbls. daily. 10-18

Tex., San Antonio—Indiana Oil and Gas Corp., 150 Broadway, N. Y., reported, acquired majority of stock of Grayburg Oil Co. 1-31

Tex., Fort Worth—Gailther Oil Co. increased capital, \$30,000 to \$60,000.

Va., Waynesboro—Consumers Utilities Co., Staunton, lately granted franchise, soon begin construction of pipe line from Staunton



here; lay gas mains in city; Carl Riddlebarger, in charge. 12-6

W. Va., Huntington—Consolidated Gas Co., reported, plans constructing pipe line from Stiltner, Wayne County to here; line to be financed by Seymour & Co., 44 Wall St., New York.

### Ice and Cold-Storage Plants

Ala., Ozark—Gulf Ice and Cold Storage Co. drawing plans for large cold storage house at plant in Eastern section; work to begin at early date.

Ark., Trumann—Dudley & Wilson, W. A. Dudley, plans erecting 20-ton ice plant.

Fla., Bradenton—Gulf Coast Fish & Poultry Co. erect \$15,000 cold storage warehouse; Baker Ice Machine Co., Engr., 116 Reed Alley, Orlando.

La., Alexandria—Empire Public Service Corp., Floyd W. Woodcock, Pres., 16th & Walnut St., Philadelphia, Pa., reported, acquired Electric Public Utilities Co., R. A. Pratt, Pres., of which Louisiana Ice and Utilities Inc., is subsidiary; Electric Public Utilities Co. has holdings in South in Oklahoma, Louisiana, Mississippi, and Texas; Louisiana Ice and Utilities, Inc., has ice plants at Alexandria, Bunkie, Baton Rouge, Mansura and Lusher, La.; Commerce, Wichita Falls and Denton, Tex.; Gulfport, Biloxi and Pascagoula, Miss.; power lines and electric plants at Colfax, Lecompte, Forest Hill, Cheneyville, Bunkie, Ville Platte, Cottonport, Mansura, Moreauville, Pine Prairie, Redell, Chantagnier, Plaquemine, Simmesport, Hamburg, Lusher, Convent, Union and Grammercy, La.; transaction includes all subsidiaries.

La., New Orleans—Oakdale Ice Co., Inc., capital \$18,000, chartered; Louis P. Hakenjos, 4020 Camp St.

La., New Orleans—M. W. Wilburn plans erecting ice plant.

La., New Orleans—Sam Stone, Jr. & Co., Architects, Masonic Temple Bldg., let contract to J. A. Petty & Sons, Inc., Godchaux Bldg., for ice plant, Carrollton Ave. and Toulouse St., for Superior Ice Co., Inc., at \$58,984. 1-31

Miss., Bay Springs—E. U. Parker and Associates erect ice plant, site of Jasper County News office building; to be known as City Ice, Market and Grocery Co.

Miss., Greenwood—Dalton McBee let contract to Ed. Reifers, Okolona, for cold storage plant; 1-story, brick; to be occupied by Mallette & Co.; install modern cold storage equipment.

Okla., Crescent—Taylor-Easterling Co. erect ice plant.

Tenn., Nashville—American Service Co., Pioneer Trust Bldg., Kansas City, Mo., acquired ice plant properties of Tennessee Oak Flooring Co.

Tex., Austin—A. J. Zilker, Jr., erect ice and cold storage plant.

Tex., Houston—American Service Co., Pioneer Tr. Bldg., Kansas City, Mo., issuing \$7,000,000 first mortgage 15 year 6% gold bonds, series A (with stock purchase warrants), through Halsey, Stuart & Co., Inc., and A. B. Leach & Co., Inc.; company owns and operates, including properties to be acquired, under centralized management, ice utility properties located in South at Houston, Galveston, Beaumont, San Antonio and Fort Worth, Tex.; Shreveport and Monroe, La.; Montgomery, Ala.; Joplin, Mo.; Hot Springs, Ark.; Chattanooga, Nashville and Knoxville, Tenn.; Atlanta, Ga.; Asheville and Concord, N. C., and others; owns all outstanding common stock of Community Ice Co., which owns and operates, including properties to be acquired, ice properties located in North Carolina, serving 8 communities, has 11 ice manufacturing plants with daily capacity of 475 tons.

Tex., Mission—Mission Ice Co., H. G. Terry, receiving bids for ice plant, Culebra and Zarzamora St.; 1 story, 60x75 ft., hollow tile and stucco; private plans.

Va., Richmond—East Coast Utilities Co., Richmond, and 168 W. Monroe St., Chicago, issuing \$1,225,000 6% gold notes, through P. W. Chapman & Co., Inc., New York, and C. T. Williams & Co., Inc., Baltimore; company incorporated in Delaware, owns, controls and operates electric light and power properties in Virginia, Maryland and North Carolina; owns water system in Urbana, and Telephone Properties serving Gloucester Peninsula of Virginia, Franklin and 20 surrounding towns; operates ice plants in Virginia, Maryland and Delaware, operates cold storage warehouses in Richmond, Va., and Dover, Del.

W. Va., Kenova—Kenova Ice and Cold Storage Co., capital \$50,000, incorporated; S. P. Ferguson, J. D. Booth.

### Iron and Steel Plants

Tenn., Memphis—Pidgeon-Thomas Iron Co. plans consolidating city and retail sales departments now on W. Second St. with the fabricating plant and warehouse at foot of Main St. on Iowa Ave.; building now being remodeled for purpose; install heating and ventilating system and special lighting facilities; plans complete for modern administration building, Main St. and Iowa Ave.; struc. steel to be used for all posts, girders, floor posts and wall supports and exterior wall surfaces, conc. and brick for tower only; plans beginning construction early in fall of 1929; E. L. Harrison, Archt., Fidelity Bank Bldg.

### Land Development

Ala., Montgomery—City, reported, plans development of golf course on Upper Wetumpka Road.

Fla., Jacksonville—Perry & Perry, 305 Peninsular Casualty Bldg., acquired tract of beach land, will develop, construct streets, etc.

Fla., Jacksonville—Jaguin Corp., capital \$30,000, incorporated; L. P. McCord, 329 Goodwin St.

Fla., Miami—Palm and Pine Land Co., incorporated; G. C. Westervelt, Glenn Ward.

Fla., Mount Dora—A. C. Quixley Realty Co. incorporated; A. C. Quixley, F. G. McMahon.

Fla., Sarasota—Duncoff Corporation, Inc., chartered; J. N. McDonald, J. W. Dennard.

Ga., Augusta—Bedford Co. incorporated; Wm. E. Bush, Henry H. Cummings.

Ga., Columbus—See Sewer Construction.

Ga., Saint Simons Island—Wm. H. Wilms Construction Co., Jacksonville, constructing artificial lake on Glynn Haven Estates.

Ga., St. Simons Island—J. E. T. Bowden, Waycross, develop subdivision.

Ga., Valdosta—City created permanent commission for development of parks, including Emory Park.

Ky., Chinnville—Gilley Development Co., incorporated; L. M. and Cora Gilley.

Ky., Louisville—Commonwealth Realty Co., capital \$25,000, incorporated; C. O. Tice, Cardinal Drive.

La., Jennings—R. E. Meisner, Gen. Chmn., Rotary Committee, interested in development of 45 acres for golf course.

Md., Baltimore—Ten Hills Co., Chapelgate Lane and Edmondson Ave., incorporated; Glenn C. McCahan.

Md., Baltimore—Republie Realty Corp., Equitable Bldg., incorporated; John D. Cockrell.

Md., Baltimore—Dunning Brothers, Inc., 712 Madison Ave., incorporated; E. Waugh and W. Norris Dunning.

Mo., Cassville—Dr. Thomas M. Sayman, 2117 Franklin Ave., plans expending \$150,000 for resort development on Roaring River; Heckenlively & Marks, Architects, Landers Bldg., Springfield, Mo.

Mo., Kansas City—Dr. L. R. Livingston, 1020 Chambers Bldg., develop 1080 acres for sheep and cattle raising; will clear land and fence.

Mo., Kansas City—John Spitzkaufsky, Inc., incorporated; H. W. Harris, 2311 E. 73d St.

Mo., St. Louis—Lesella Investment Co., incorporated; Albert F. Epstein, 6227 Northward St.

Mo., St. Louis—Estate Development Co. incorporated; Roy F. Britton, 626 Pine St.

Mo., St. Louis—Wm. M. Schumacher Realty Co., capital \$30,000, incorporated; Wm. M. Schumacher, 3716 Oakmont, Normandy.

Mo., St. Louis—R. W. Sisking, 507a Missouri St., and W. H. Horner, 515 Missouri St., develop 30 acre subdivision.

Mo., St. Louis—Eightio Building Corp., incorporated; Virgil A. Lewis, 8933 Tudor St.

Mo., University City, St. Louis—City will purchase and develop 90 acre tract east of McKnight Rd. for park.

N. C., Asheville—Auburn Asheville Co., capital \$35,000, incorporated; Theodore B. Sumner, Chatham Road, Woolsey.

N. C., Charlotte—Park and Recreation Cmn., Dr. John Hill Turcker, Chmn., develop golf course on S. Irwin Creek.

N. C., Troy—Real Estate and Insurance Co., capital \$25,000, incorporated; H. H. Wood, R. E. Blankenship.

S. C., Columbia—Southern Farms and Investment Co., capital \$100,000, incorporated; Harry D. Calhoun, A. J. Bird.

Tenn., Elizabethton—Bluff Parks, Inc., chartered; H. C. Campbell, W. A. Graham.

Tenn., Knoxville—City Planning Engrs. recommended development 6 major parks outside city, 23 neighborhood parks inside and an adequate playground for each city school; Wm. Whaley, Chmn. City Planning Cmn.

Tex., Bandera—Tom S. Ethridge, 230 Broadway, San Antonio, acquired ranch of 3600 acres at head of Elam Creek nr. Taft.

Tex., Dalhart—Edward Flummerfelt, Hugoton, Kan., acquired 960 acres farming land.

Tex., Dalhart—E. E. and O. V. Hartshorne interested in colonization at Coldwater, 30 miles north of here, by Capitol Syndicate.

Tex., Dalhart—Starnes & Griffith, developing colonization project in Dallam County.

Tex., Fort Worth—Monticello Land Co., 909 Throckmorton St., developing 125 acre subdivision 2 miles west of business district; Thurber Construction Co., Fort Worth Natl. Bank Bldg., contractor for Texas rock asphalt paving; Fort Worth Gas Co., for gas; W. O. Wear, Reynolds Bldg., for sidewalks; Fort Worth Power and Light Co., for lights; General Electric Co., Schenectady, N. Y., for street lighting; Hare & Hare, City Planners, Kansas City, Mo., and Brooks Baker, Landscape Archt., Ellison Bldg.

Tex., Harlingen—L. A. Miller, Golf Archt., interested in development of golf course for Harlingen and San Benito; has leased site of 110 acres on highway between 2 cities; erect clubhouse, work shop, etc.; cost \$50,000.

Tex., Houston—Hollywood Cemetery Assn., 3506 N. Main St., develop 15 acre cemetery on North Main St.

Tex., Houston—W. W. Bibens, 1308 Bomar St., acquired 101 acres on Houston-Westfield Road.

Tex., Laredo—D. B. Sterns develop subdivision adjoining Irving Park Addition; install water, sewers, electric lights, gas, etc.

Tex., Quanah—Edgar F. Norton acquired 23,145 acres ranch land in Oldham and Deaf Smith Counties.

Va., Richmond—Montrose Heights Development Co., capital \$25,000, incorporated; Sherlock Bronson, State Planters Bldg.

W. Va., Wheeling—Columbia Cavern Co., capital \$50,000, incorporated; Ralph W. Snyder, 223 Erie St.

### Lumber Enterprises

Ark., Little Rock—Planters' Lumber Co., 410 E. Washington St., North Little Rock, increasing capital stock, \$10,000 to \$50,000.

Fla., Orange City—Orange City Lumber Co., capital \$25,000, incorporated; J. A. Toll, E. C. Hayman.

Ga., Barnesville—Barnesville Planing Mill Co. installing Moore kiln for drying pine; includes 2 fireproof dry kiln doors and other improvements from Moore Dry Kiln Co., 843 Blanche St., Jacksonville, Fla.

Ga., Hagan—Bradley Bros. installing Moore kiln for seasoning pine lumber from Moore Dry Kiln Co., 843 Blanche St., Jacksonville, Fla.

Ky., Louisville—Peerless Lumber Co., Frank S. Gerner, 1523 astern Pkwy., erect office, 50x26 ft.; lumber warehouse and mill, 200x26 ft.; comp. roof.

La., Shreveport—Robinson-Slagle Lumber Co., 1401 Abbie St., let contract to K. C. Wilson for rebuilding burned lumber plant; M. D. Weeks, Archt., 816 Hope St. 1-17

Miss., Brookhaven—Lincoln County Lumber Co. installing 2 dry kilns from Moore Dry Kiln Co., 843 Blanche St., Jacksonville, Fla.

Mo., St. Louis—United Lumber Co., J. E. Goldstein, Pres., 526 Chouteau Ave., acquired tract west side of Hanley Rd., between Clayton and Manchester Rd.; expend \$100,000 for office and lumber sheds.

N. C., Albemarle—Snuggs Lumber Co., capital \$100,000, incorporated; E. E. Snuggs, W. H. Hathcock.

N. C., Charlotte—J. H. Wearn Lumber Co., 200 S. Brevard Court, increased capital stock to \$500,000.

N. C., Hayesville—Maney-Campbell Lumber Co., capital \$25,000, incorporated; John J. Maney, C. E. Campbell.

N. C., Sanford—Chatham Development Co., capital \$50,000, incorporated; J. R. McQueen, Lakeview; H. N. Butler, Sanford; general lumber and timber business.

Va., Hickory—J. A. Spence Corp., capital \$10,000, incorporated; M. M. Spence.

W. Va., Wheeling—Woodlawn Lumber and Tie Co., capital \$100,000, chartered; E. F. Klebe, 115 N. Front St.

### Metal-Working Plants

Va., Hopewell—Hopewell Sheet Metal Works let contract to C. D. Hughes for \$15,000 building; Osbert K. Edwards, Archt., Elder Bldg.

### Mining

N. C., Ashford—Blue Ridge Lime and Stone Corp. incorporated; R. Monte, J. A. Sinclair.

N. C., Liberty—Liberty Hill Quarry, Inc., capital \$50,000, incorporated; G. W. Crouse, J. B. Ross.

Tennessee—J. W. Young and C. C. Houston, Fayetteville, leased 2000 acres on Chalk Creek and plan immediate development of tripoli deposits and other minerals; leases made on royalty and ton basis and include all mineral and oil and gas rights.

Tenn., Johnson City—American Cyanamid Co., 511 Fifth Ave., New York City, reported, plans expending \$50,000,000 for development, between here and Kingsport.

Texas—Duval Texas Sulphur Co., J. W. Cain, Pres., Niels Esperson Bldg., Houston, advises let contract to Brooks-Fisher Co. for erecting four 1000-h. p. Stirling boilers from Babcock & Wilcox Co., 85 Liberty St., New York, at mine on Palagana Dome, Duval County; ordered additional heaters, pumps and other equipment; will give 200% additional capacity.

Tex., Finlay—Frank Akerman, El Paso, erecting \$200,000 gypsum products plant; plans call for manufacturing 25,000 to 50,000 tons of wall board and approx. 500 tons of plaster daily; also manufacture hollow tile; company to be known as Texas Gypsum Products Co.; will exploit great gypsum deposits 2 mi. east of here, on Southern Pacific Lines and east bank of Finlay canyon.

### Miscellaneous Construction

Ga., Columbus — City Comm. tentatively agreed upon plans for \$1,200,000 bond election May 18; \$65,000 to be used for incinerator. See Financial News. 10-4-28

La., New Orleans—Comms. of Port of New Orleans, 200 New Courthouse Bldg., have low bid from O'Brien Construction Co., Queen and Crescent Bldg., for woodwork and painting in rear extension of shed at St. Andrew St. wharf at \$14,701.

La., New Orleans—Orleans Levee Bd., New Court House, let contract to Orleans Dredging Co., Inc., Maison Blanche Bldg., for 1000 ft. sand beach extending 600 ft. from shore of Lake Pontchartrain at \$40,000. 1-31

Md., Baltimore—Bd. of Awards, Charles F. Goob, Ch. Engr., has low bid from Northeastern Construction Co., 6 W. Madison St., at \$1,732,936, for following, at McComas St. pier development: South Marginal Wharf building, 2-story, irregularly shaped, 133x920 ft., one-track apron on bulkhead and front of building; West marginal warehouse, 2-story, 600x100 ft., 2-track apron on bulkhead and front of building; steel frame, gypsum roof, rein. conc. floors, sheet metal siding; also 4 bridges connecting second story of the various buildings of development. 2-7

Mo., Cape Girardeau—Maj. Gen. Edgar Jadwin, Washington, D. C., reported, announced expenditure of \$541,000 for rebuilding of 17 mi. of levee along south edge of Little River Drainage Dist., extending from near Allenville eastward to Mississippi River; tentative plans call for handling of 1,000,000 cu. yd. of earth and approx. 15,000 lin. ft. of revetment work.

North Carolina—U. S. Coast Guard Headquarters, Washington, D. C., receives bids Mar. 6 for dwelling and boathouse for Big Kinnakee Coast Guard station (coast of North Carolina). See Want Section—Bids Asked.

N. C., Charlotte—City, Robert L. Brown, Commr. of Public Works, let contract to McClelland Co., Wilder Bldg., for incinerator at \$165,711; Morse-Boulger Destructor Co., 465 Lexington Ave., New York, to install equipment, stacks, etc. 2-14

Tex., San Antonio—City, C. M. Chambers, Mayor, has low bid from W. C. Thrallkill for open zoo at Brackenridge Park at \$53,190. 2-7

Va., Hopewell—Seaboard Air Line Ry. Co., W. D. Faucett, Ch. Engr., Savannah, Ga., reported, will establish large waterfront terminal. (See Railways.) 1-3

W. Va., Parkersburg—City plans establishing swimming pool.

### Miscellaneous Enterprises

Ala., Decatur—Alabama Handle Works rebuild burned plant.

Ala., Gadsden—Goodyear Tire and Rubber Co., Akron, Ohio, reported, let following

sub-contracts for tire manufacturing plant: Lumber forms, Southern Mfg. Co.; sand, Gadsden Sand & Gravel Co.; face brick, Agricola Brick Co.; all Gadsden; roofing, Leathers Sheet Metal Works, Athens, Ga.; misc. and orna. iron, Price-Evans Foundry Corp., Anderson Ave., Chattanooga, Tenn.; plumbing and drains, Lortis Plumbing Co., 440 Marietta St., Atlanta, Ga.; lumber, Pine Plume Lumber Co., First Natl. Bk. Bldg., Montgomery, Ala.; common brick, Stephenson Co., Decatur, calls for 3,000,000 brick; maple flooring, Cleveland Hard Wood Flooring Co., 265 Colonial St., Cleveland, Ohio; 150 tons steel rein. bars and nails, Gulf States Steel Co., Brown-Marx Bldg.; slag, Birmingham Slag Co., Comer Bldg.; both Birmingham; A. K. Adams Construction Co., 542 Plum St., N. W., Atlanta, Ga., has general contract. 2-7

Ala., Montgomery—Paragon Press, 200 Dexter Ave., erect \$30,000 building, 4 Adams St.

Ala., Montgomery — Swift & Co., A. H. Joiner, Mgr., Chicago, Ill., let contract to Jeffers Bros. Co., 207½ Dexter Ave., for \$40,000 addition to packing plant; conc., brick, tar and gravel roof; work to begin immediately. 1-14

Ala., Mobile—John Morrell Packing Co., 120 N. Water St., let contract to R. E. Sundberg Construction Co., 150 N. Water St., for packing plant addition; 1-story, 88x100 ft. 2-7

Fla., Jacksonville—Foremost Dairy Products, Inc., organized by J. C. Penney-Gwinn Corp., 228 Hogan St., and George M. Forman & Co., 120 Broadway, New York, and 112 W. Adams St., Chicago; Burdette G. Lewis, Green Cove Springs, to be president; Hugo Larsen, V.-Pres., and J. C. Penney, Chmn. of Bd.; George M. Forman & Co. to be fiscal agents for organization; reported, acquired 25 dairy and ice cream plants in Florida and adjacent states, involving over \$4,000,000 assets.

Fla., Lake Wales—Highland Park Packing House, Inc., increased capital to \$100,000.

Fla., Williston—Williston Crate Co. incorporated; J. E. Pasley, T. L. Williams.

Ga., Baxley—Telfair County Chamber of Commerce interested in establishing milk condensing plant.

Ga., Columbus — Provision Co., T. G. Strange, Gen. Mgr., Box 1104, soon receives bids for \$75,000 packing house addition to plant, Glade Road; 100x125 ft., rein. conc., brick, tar and gravel roof, 1-story; following estimating: Brazell & Miller, Atlanta; Ewart Bros., Pine St., and Williams Lumber Co., Inc., 13th St., both Columbus; Sundberg Construction Co., St. Louis St., Mobile, Ala.; Skinner & Maxwell Construction Co., Tuscaloosa, Ala. 1-3

Ga., Helena—D. N. Stafford and D. J. Johnson, both Baxley, announce plans for establishing \$500,000 milk plant here.

Ga., Macon—Chamber of Commerce interested in establishing peanut shelling plant.

Ky., Ashland—Samuel L. Steele Construction Co., capital \$25,000, incorporated; Sam L. Steele, C. D. Boggess.

Ky., Brownsville—Edmondson County News incorporated; Perry G. Maloon.

Ky., Lexington—Duncan-Kelly Coffee Co., chartered; Harry T. Kelly, 151 Kentucky Ave.

Ky., Louisville—Emmert Packing Co., 1202 Story Ave., increasing capital stock, \$750,000 to \$1,000,000.

Ky., Louisville—Red Cap Battery Co., H. Daniel Fabel, Pres., acquired building, Breckinridge St., near 13th St.; expend \$30,000 to remodel for battery manufacturing plant; produce 350 to 500 batteries daily.

Ky., Louisville—Warren D. Williams, 2813 Glnstead Drive; Alex. G. Hunter and associates acquired controlling interest in Southeastern Paper Co., 204-206 W. Main St.; Mr. Williams to be president.

Ky., Newport—Wheat Culvert Co. increasing capital stock, \$25,000 to \$50,000.

Ky., Owensboro—Ken-Rad Tube and Lamp Corp., issuing 75,000 shares capital stock, no par value, through Trumbull, Wardell & Co., 208 S. La Salle St., Chicago, Ill.; company a Delaware corporation, will take over and acquire all of capital stock, except directors' qualifying shares, of Ken-Rad Corp., a Kentucky corporation, and all capital stock of Kentucky Electric Lamp Co., Kentucky corporation, except directors' qualifying shares.

Louisiana—Wesson Oil and Snowdrift Co., Inc., issuing 400,000 shares convertible preferred stock (without par value), through National City Co., New York City; company incorporated in Louisiana and owns all capital stocks (except directors' qualifying shares) of Southern Cotton Oil Co., Southport Mill, Ltd., and Sco Tank Line, Inc., engaged in manufacture and distribution of wide variety of products including "Wesson Oil," "Snowdrift" shortening, "Secoco" short-

ening, and "MFB"; proceeds will be applied to the redemption on June 1, 1929, of entire issue of \$7 cumulative preferred stock of company, of which 142,114 shares are at present outstanding, and to provide additional working capital.

La., Bastrop—Continental Bag and Paper Co., subsidiary of International Paper Co., R. J. Cullen, V.-Pres., Bastrop, erecting addition to bag plant; 200x100 ft., to be used as storage room for paper bags.

La., Monroe—H. Ellis, 518 DeSiard St., erect bakery, Catalpa and Harrison Sts., to be occupied by A. T. Boad; 30x60 ft., 1-story, brick.

La., New Orleans—Williams & Co., Inc., capital \$60,000, chartered; D. B. Williams, 8402 Oak St.; gravel, paving, etc.

La., New Orleans—Gold Seal Potato Chip Co., Inc., chartered; Marion M. Baker, 6317 Story St.

Maryland—See Drainage, Dredging and Irrigation.

Md., Baltimore — William L. Elder announced organization of National Paving and Contracting Co.; erect plant on Western Maryland Ry. near Rogers Ave.

Md., Baltimore — Directors of American Radiator Co., 40 W. 40th St., New York, and Standard Sanitary Manufacturing Co., Bessemer Bldg., Pittsburgh, approved plan for union of interests of the 2 companies through organization of new holding company, to be known as American Radiator & Standard Sanitary Corp. 2-7

Mo., California—Weber Ice Cream Co., Floy Oesterly, establish branch plant.

Mo., Jefferson City—Jefferson City Hotel Co., capital \$50,000, incorporated; John S. Sweet, Topeka, Kan.; W. C. Jones, Kansas City.

Mo., Jefferson City—Weber Ice Cream Co., John J. Weber, reported, merged with Beatrice Creamery Co., 1526 S. State St., Chicago, Ill., a \$20,000,000 firm with more than 50 plants in cities from Los Angeles, Calif., to Philadelphia, Pa.; includes Weber properties in Jefferson City, Moberly, Sedalia, Fulton and Boonville.

Mo., Kansas City—Kansas City Marble and Tile Co., 3029 Roanoke Road, increasing capital, \$50,000 to \$100,000.

Mo., St. Louis—Tower Grove Printing Co., Wm. Froehlich, Pres., 3407 Gravis St., increased capital to \$75,000.

Mo., St. Louis—American Laundry Machinery Co., E. B. Stanley, Pres., Ross and Section Aves., Cincinnati, Ohio, acquired Schramm Manufacturing Co., A. O. Schramm, Pres., 2315 Texas Ave.; company manufactures curtain stretchers and blanket dryers.

Mo., St. Louis—Metalcraft Corp., S. C. McCluney, Pres., 5101-15 Penrose Ave., let contract to Schooley & Chambliss, 6038 Delmar St., for metal toy manufacturing plant; conc. and steel, conc. floors, steel deck roof; cost \$80,000 with equipment; work begun.

Mo., St. Louis—Modern Shoe Manufacturers, Inc., chartered; Robert E. Malonev, 3848 Lillian St.

Mo., St. Louis—Jax Plant Food Co. incorporated; Ray S. Thomson; will occupy 20,000 sq. ft. floor space in factory building, 8011 Idaho Ave.; expend approx. \$15,000 for equipment.

Mo., St. Louis—Koob Bakeries Co., 2823 Marcus Ave., has plans for \$40,000 addition to bakery; 2-story, 50x58 ft.

Mo., St. Louis—Joe Treybal, Fourth and Lynch Sts., manufacturer celluloid novelties and sporting equipment, plans plant addition; 1-story and basement, 30x70 ft.

Mo., St. Louis—Standard Materials Co., capital \$4,500,000, incorporated; Conrad Besch, Pres., 1010 Pine St.; take over sand and gravel operations of Missouri Portland Cement Co., Mississippi River Sand and Material Co. and St. Charles Sand Co.; also retail yard facilities of Missouri Portland Cement Co.

Mo., St. Louis — Directors of Harry L. Hussmann Refrigerator Co., 911 N. Broadway, reported, approved plan to consolidate with Ligonier Refrigerator Co., Ligonier, Ind., and Steiner Mfg. Co., mfrs. of electrical appliances, 4100 N. 21st St., St. Louis, to form corporation with assets of over \$3,000,000, for manufacturing butchers' supplies.

Mo., St. Louis—Wagner Electric Co., P. B. Postelwaite, Pres., 6400 Plymouth Bldg., let contract to Hercules Contracting Co., Walnwright Bldg., for addition to plant; struc. steel to St. Louis Structural Steel Co., 57th St. and Baltimore and Ohio F. R.; Laclede Steel Co., Arcade Bldg., has contract for 150 tons of steel. 2-14

N. C., Charlotte—Geigy Co., Inc., Basle, Switzerland, and 89 Barclay St., New York City, dye and dyestuff manufacturers, establish branch plant here.



N. C., Charlotte—Cooper & Cooper, W. S. Brand, 23 Cliff St., New York City, reported, promoting merger including approx. 150 drug stores in North and South Carolina, involving \$15,000,000 to \$20,000,000.

N. C., Sanford—Contracting—V. C. Brown & Co., capital \$50,000, incorporated; V. C. Brown, C. B. Campbell.

Okl., Ponca City—King Laundry Co., T. H. Fritz, Mgr., erect laundry; brick, steel, conc., 75x140 ft., built-up roof, conc. and terrazzo floors; work by day labor, to start about April 15.

Okl., Tulsa—Holland-Lang Shoe Co., C. L. Holland, Pres., formed by merger of Holland Shoe Co., 116 E. Third St. and E. Z. Lang Shoe Co., 3 E. Third St.; both operate shoe stores.

S. C., Greenville—C. F. Sauer Co., 2000 W. Broad St., Richmond, Va., acquired business of Duke Products Co., manufacturers of Mayonnaise; plans expansion.

S. C., Summerville (P. O. Leesville)—Imperial Casket Co., Inc., capital \$25,000, chartered; C. D. Brown, Jr., Thos. Nichols.

Tenn., Dyersburg—Kraft-Phenix Cheese Co., 400 Rush St., Jason Whiting, Pres., New York, install machinery in cheese plant.

Tenn., Johnson City—Southern Refrigeration Co. acquired Central Coal and Ice Co.

Tenn., Knoxville—Chamber of Commerce negotiating with Morley Button Mfg. Co., 20 Providence St., Boston, Mass., with reference to establishing button plant.

Tenn., Maryville—Kraft Cheese Co., 402 Rush St., Chicago, Ill., plans establishing cheese plant.

Tenn., Nashville—Paris-Burge Cleaners, Inc., formed by merger of Paris Dry Cleaners and Dyers and Burge Dry Cleaners; R. L. Nodwood to be president.

Tenn., Union City—Obion County Milk Co. acquired 3-acre tract on Nashville, Chattanooga & St. Louis Ry.; soon erect large milk cooling plant and later plan erecting modern plant for consumption of whole milk.

Tex., Beaumont—Zummo Packing Co., F. J. Zummo, Pres., 710 College St., erecting \$125,000 packing plant in Jefferson County; 2 and 3 stories; capacity of 200,000 head of hogs and 15,000 head of cattle, in addition to sheep and goats; employ 100.

Tex., Dallas—Bennett Pump Corp., Muskegon, Mich., leased building, 2208 S. Harwood St., for distributing warehouse to serve Texas, Oklahoma, Arkansas and Louisiana; soon erect plant for manufacturing lubricating oil equipment, oil pumps and tanks.

Tex., Dallas—Associated Factories Corp. formed to manufacture machine for removal of cotton lint from seed after ginning; John Spellman, V.-Pres., Magnolia Bldg.

Tex., Dallas—McRea Paint Products Co., Los Angeles, Cal., erecting paint products plant; 60x80 ft., brick, and six smaller buildings; building and machinery to cost approx. \$75,000; will serve 15 states in Southwest; A. H. McRea, V.-Pres. of company now on ground.

Tex., Finlay—See Mining.

Tex., Refugio—Gulf Press, Inc., chartered; E. E. Swift, Claude E. Heard; acquired Refugio County News and Sinton Enterprise.

Tex., San Antonio—Allen & Allen, 217 Fredericksburg Road, erect \$10,000 dairy station, N. Flores St.

Tex., San Antonio—City Comm. let contract to Harrington Corp., Moline, Ill., for installing 100 fire alarm boxes and 15 police signal boxes.

Tex., Slaton—Chamber of Commerce negotiating with Red Rock Creameries, Inc., Frederick and Waurika, Okla., for establishment milk plant.

Tex., Stanton—E. Parker, Post, and associate acquired City Bakery plant.

Tex., Tyler—Tyler Milk Products Co., Gus F. Taylor, Pres., let contract to Campbell & White, Dallas and Tyler, for milk plant at \$39,000; install machinery to cost \$145,000; use Gray-Jensen powdered milk process; Douthitt Engineering Co., Paul Zetnick, Engr., 100 W. Monroe St., Chicago, Ill., in charge of erection and installation of machinery.

Tex., Waco—Borden Co., 350 Madison Ave., New York City, let following sub-contracts for condensed milk plant; concrete and brick, J. E. Johnson Construction Co., Camden Bldg.; struc. steel, Central Texas Iron Works, 2125 Webster Ave., both Waco; rest of work, roofing, etc., to be handled by H. K. Ferguson Co., Hanna Bldg., Cleveland, Ohio, Gen. Contr.; following furnishing equipment: 2 150-h.p. Scotch Marine boilers, Murray Iron Works, 165 Broadway, New York City; 500 h. p. boiler, Cochran feed-water heater, I. N. Beeler Co., Syracuse, N. Y.; water pumps, American Steam Pump Co., Battle Creek,

Mich.; 200 kv-a., 3 phase, 60 cycle, 220-volt Westinghouse generator, directly connected to 21x22 Skinner Unaflo engine, complete with switchboard, George Sachsenmaier Co., Holmesburg, Philadelphia, Pa.; 10½x10½ horizontal, 42-ton ammonia compressor, complete with vertical shell and tube condenser; also Bryan tank, 40 ft. x 12 ft. x 4.8 in., complete with single pass Bryan cooler and pump, Vilter Mfg. Co., Milwaukee, Wis.; dry vacuum pump and pneumatic barometric condenser, Chicago Pneumatic Tool Co., Chicago, Ill.; butter-making equipment, Jensen Creamery Machinery Co., Bloomfield, N. J.; conveying system, Mathews Conveying Co., New York; dried milk equipment, built and installed, Merrell-Woule Co., Syracuse, N. Y.

Va., Big Stone Gap—Chamber of Commerce negotiating with Meade Fibre Co., Dayton, Ohio, for establishing paper mill.

Va., Danville—Douglas Tobacco Co. incorporated; W. R. Laurence, Greenville, Tenn.

Va., Lynchburg—Nehi Bottling Co., Inc., capital \$25,000, incorporated; W. Moncure Gravatt, Blackstone.

Va., Norfolk—Norfolk Tallow Co., Inc., E. L. Field, Pres., 603 Union St., increasing capital stock, \$100,000 to \$150,000.

Va., Norfolk—Washington Arcade Co., John S. Blick, Pres., Washington, D. C., leased building, Granby and Ninth St., now occupied by Norfolk Auto Exchanges; erect 1-story addition; establish bowling alley.

Va., Richmond—Tuckahoe Apartment Corp., capital \$500,000, incorporated; P. J. Beattie, 2416 Maplewood Ave.

Va., West Point—Albemarle-Chesapeake Co., Inc., let contract to John T. Wilson, Inc., Mutual Bldg., Richmond, for addition to paper plant; Pusey & Jones, Wilmington, Del., have contract for major items of machinery to be installed; Truscon Steel Co., Youngstown, Ohio, furnishing rein. steel and steel sash; Sash, Door and Glass Corp., Sixth and Stockton Sts., Richmond, glass and glazing; main building to be of rein. conc., 77x578 ft.; foundation work under way; soon let contract for struct. steel, brick work, roofing, etc.; erect addition to power plant; 52x77x45 ft., rein. conc., steel; plans by Albemarle-Chesapeake Co.'s Engrs.

W. Va., Ellamore—Moore, Keppel & Co., capital \$1,000,000, incorporated; C. R. Moore, Garland, Pa.; Joe B. Moore, Ellamore; manufacture, buy and sell timber, coal oil and gas and by-products; build, operate and maintain railroads.

W. Va., Huntington—Huntington Seating Co., Inc., changing name to Huntington Seating Corp., W. M. Jones, Pres., 27th and Third Ave., capital \$300,000; plans expansion.

W. Va., Huntington—Price Construction Co., capital \$100,000, chartered; Herschel Price, 2702 Third Ave.

W. Va., Paden City—American Glass Works, capital \$100,000, incorporated; David Fisher, New Martinsville; Charles Ray, Paden City.

### Motor Bus Lines and Terminals

D. C., Washington—Greyhound Lines, Inc., 514 E. 34th St., Chicago, Richmond-Washington Motor Coach Co., 75 Hanover Pl., N. W., Washington, D. C., and Camel Coach Co., of North Carolina, reported, merged for purpose of operating motor bus passenger service over 1400 mi. route, New York to Jacksonville; Greyhound Lines associated with Pennsylvania Rapid Transit to operate link, New York to Washington; Richmond-Washington Motor Coach Co. to carry on service, Washington to Richmond; Camel Coach Co. to cover link, Richmond to Augusta, Ga., and Greyhound Lines to cover remaining stretch to Jacksonville.

Fla., Jacksonville—Motor Transit Corp., O. S. Caesar, Pres., 514 E. 34th Place, Chicago, Ill., and American Motor Transportation Co., W. E. Travis, Pres., reported, announced merger of Yellowway Lines and Greyhound Lines, with combined investment of more than \$12,000,000; Greyhound Lines operate daily, Chicago to Detroit, Toledo, Cleveland, Pittsburgh and New York and south from Chicago to Indianapolis, Cincinnati, Louisville, Atlanta and Jacksonville; Yellowway Lines serve Pacific coast seaboard, Portland through San Francisco to Los Angeles, and across continent, Los Angeles to New York; 2 lines to be united under name of American Motor Transit Corp.

Ky., Lexington—Kentucky Securities Corp., 1500 Walnut St., Philadelphia, Pa., acquired Consolidated Coach Corp., Guy Huguelett, Pres. and Gen. Mgr.

Mo., Kansas City—Missouri-Pacific Railroad Co., L. W. Baldwin, Pres., St. Louis, acquired Capital Stage Bus Lines, operating between here and Jefferson City.

N. C., Rocky Mount—Dixie Motor Express, Inc., capital \$50,000, chartered; T. L. Smith, W. F. Hayes.

Tenn., Memphis—Greyhound Pickwick Bus Corp., plans erecting \$100,000, general terminal.

Tex., Fort Smith—A. E. Gibson and associates, applied for franchise for street bus line in city.

Va., Cape Henry—U. S. Engr. Office, Norfolk, receives bids until Mar. 6 for 2 rigid steel towers at Fort Story. See Want Section—Bids Asked.

### Motor Cars, Garages, Filling Stations

Fla., Clearwater—Branch Crews, Inc., capital \$25,000, chartered; Guy Roberts, James Clark.

Fla., Ocala—Marion County Motor Co., incorporated; F. W. Boyer, W. C. Wooley.

Ky., Lexington—Edwards Motors, capital \$25,000, incorporated; Alexander C. Reed, Iron Works Pike.

Ky., Lexington—La Grew & Wills Tire Co., capital \$30,000, incorporated; D. V. La Grew, 445 Columbia Ave.

La., Shreveport—Shreveport-El Dorado Oil Co., Commercial Bk. Bldg., receiving bids through H. E. Schwarz, Archt., Slatery Bldg., for erecting filling station.

Miss., Pickens—O'Bannon Motor Co., O. O. O'Bannon, acquired site; erect garage and salesroom.

Mo., St. Louis—Oliver Cadillac Co., 3222 Locust St., increasing capital stock, \$200,000 to \$300,000.

N. C., Charlotte—E. C. Griffith & Co., Johnston Bldg., let contract to Southeastern Construction Co., 210 W. Second St., for garage and salesroom; 1-story, 75x150 ft., brick, steel and wood roof, conc. floors; foundations laid.

N. C., Forest City—H. B. Doggett and J. C. Ellen acquired Huntley Motor Co., handling Pontiac-Oakland motor cars; changing name to Ideal Motor Co.

N. C., Pilot Mountain—Pilot Chevrolet Co., Inc., capital \$50,000, chartered; S. W. Fulk, C. R. Fowler.

N. C., Wintson-Salem—American Oil Co., Roby E. Taylor, Mgr., S. Main St., advises transferred to Pilot Oil Co., R. E. Kraft, Pres., all gasoline and kerosene dispensing equipment, involving more than 30 stations located in this vicinity; also leased to them, bulk plant and retail service station, S. Main St. and sold them trucks and other equipment; acquired out-right bulk plant and warehouse of Pilot Oil Co.; plan enlarging and remodeling for use in handling fuel oil and motor oil.

Okl., Oklahoma City—C. C. Owens, owner of Modern Grocery, 1203 N. Harvey Ave., acquired site, 12th St. and Harvey Ave.; plans auto hotel; 2-story.

Okl., Tulsa—C. A. Mayo, 1413 S. Cheyenne St., John D. Mayo, 1401 S. Cheyenne St., and H. F. Wilcox, 310 W. Sixth St., acquired site, 100x140 ft., 411 S. Cheyenne Ave.; begin erecting motor hotel within 90 days; 7-story and basement, ramp type, fireproof, foundation to carry additional story; modern facilities for washing, greasing, etc.

Tenn., Nashville—H. S. Vaughn, Independent Bldg., erect \$15,000 auto shop, 13th Ave. and Grundy St.; brick.

Tex., Dallas—Texas Oil Co. let contract to Childs-Lasell Construction Co., Lansing Bldg., for service and filling station, Maple and McKinney Ave.; to be completed about Mar. 1.

Tex., El Paso—Chevrolet Motor Co., Two Republics Bldg., let contract to Ware-Ramey Co., 1614 E. Missouri St., for \$75,000 warehouse, Eucalyptus and Myrtle St.; 38,000 sq. ft. floor space; to accommodate zone offices, training schools and parts departments; excavating started.

Tex., Houston—Rupley Brake Service, R. H. Rupley, 1313 San Jacinto St., leased building, 2620 Main St., between McGowan and Dennis Ave.; 100x150 ft.; remodel immediately for brake service station.

Tex., Houston—R. L. Autrey let contract to T. B. Hubbard Construction Co., for \$100,000 automobile building, Rusk Ave. and La Branch St.; 2-story; to be leased by Eller & Gripp.

Tex., Mission—Sydnor Motor Co. has low bid from W. F. Chambers, San Benito, for garage and salesroom at \$21,365; R. Newell Waters, Archt., Weslaco.

Tex., Turkey—Turkey Auto Sales Co., Inc., capital \$60,000, chartered; R. H. Norris, L. E. Nash.

Va., Alexandria—Spillmans, Inc., capital \$50,000, chartered; N. Lindsey, Braddock; automobiles.

Va., Martinsville—Gardner Bros., Inc., capital \$50,000, chartered; W. R. Gardner, Jr., Danville; automobiles.

Va., Petersburg—Union St. Tire and Battery Co., Inc., capital \$25,000, chartered; H. E. Jackson, 1523 Berkeley Ave.

### Railways

Ala., Huntsville—Chamber of Commerce, James M. Gill, Sec., appointed committee composed of W. M. Wellman, M. M. Hutchens and W. L. Denham to sponsor establishment of a north and south railway through Huntsville to include Gadsden.

Ky., Louisville—Louisville & Nashville R. R. Co., W. R. Cole, Pres., reported, let contract to Pullman Car and Manufacturing Corp., C. A. Liddle, Pres., Chicago, Ill., for 300 box cars. 1-24-28

Mo., St. Louis—St. Louis-San Francisco Ry., F. G. Jonah, Ch. Engr., reported, ordered underframes and superstructures from Pullman Car and Manufacturing Corp., C. A. Liddle, Pres., Chicago, Ill.

Mo., St. Louis—Missouri-Pacific Railroad, L. W. Baldwin, Pres., reported, applied to Interstate Commerce Comm. for permission to issue \$7,185,000 equipment trust securities to be applied toward purchase of \$9,595,000 of railway equipment.

Tenn., Benton—Tennega Railway Co. applied to Interstate Commerce Comm. for extension to be known as Jack River Railroad, 15 mi.; routes surveyed.

Texas—Chicago, Rock Island and Pacific Ry. Co., J. E. Gorman, Pres., Chicago, Ill., reported, will expend \$12,000,000 for new equipment and new 110-lb. rail, in addition to program announced first of year. 1-10

Tex., Dallas—Texas and Pacific Ry. Co., J. L. Lancaster, Pres., reported, ordered 50 underframes from Pullman Car and Manufacturing Corp., C. A. Liddle, Pres., Chicago.

### Railway Shops and Terminals

Tenn., Nashville—Nashville, Chattanooga & St. Louis Ry., H. McDonald, Ch. Engr., erect \$35,000 addition to brick roundhouse, 26th and Charlotte Ave.

### Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

#### Proposed Construction

Ala., Birmingham—City Comm. receives bids Mar. 12 for 2-in. asphalt on 5 and 6-in. conc. pavement, with grading, curbing, guttering, cement sidewalks on various streets; cost \$61,730; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm. authorized expending \$148,125 to pave 8 streets, including Bessemer Road Alley, Forty-sixth St., Ensley, Twelfth Terrace, North; cost \$85,675; installing 3 sewers in Arden Park, Pratt City North Highlands, and in vicinity of Forty-fourth and Thirteenth St.; cost \$62,450; A. J. Hawkins, City Engr.

Ala., Guntersville—State Highway Comm., Woolsey Fennell, Highway Dir., Montgomery, receives bids Mar. 13 to grade, drain and surface 10.07 mi. State Route No. 1, Guntersville to Huntsville, Marshall County, 102,323 lb. rein. steel; 185 lin. ft. treated timber and conc. bridge.

Ark., Bentonville—State Highway Dept., Little Rock, will repair Decatur-Centerton road, Benton County.

Ark., Marianna—Thomas H. Allen, Memphis, submitted specifications of proposed paving district, in Marianna, including section east of Missouri Pacific tracks and extension of Mississippi St. to Highway No. 1.

Fla., Jacksonville—City, M. W. Bishop, Sec., plans expending \$300,000 to widen main highways, and \$300,000 as city's portion on street paving. See Financial News. 1-10

Fla., Kissimmee—State Road Dept., Robt. W. Bentley, Chmn., receives bids soon to complete Highway No. 24, Kissimmee to Melbourne, Osceola County; Victor Hill, County Commr.

Fla., La Belle—State Road Dept., Robt. W. Bentley, Chmn., Tallahassee, considering Road No. 25, Sugarland Highway, through Hendry County, to Lee County line.

Ga., Columbus—City Commrs. considering expending \$260,000 for street paving. See Financial News.

Ga., Macon—City, C. H. Hunnicut, Chmn. of Street Committee, considering paving Third and Mulberry St. in downtown dist.

Ga., Savannah—City, Mayor and Bd. of Aldermen, R. H. Clements, Dir. of Public Works, receive bids Feb. 27 to pave 2 streets; 2,006 sq. yd. 32-ft. sheet asphalt or plain conc. on Fifty-fourth St., from Reynolds St. to Atlantic Ave.; 4,235 sq. yd. 30-ft. sheet asphalt or plain conc., Fifty-first St., Bull to Montgomery St.

Ky., Ashland—City, John Kobs, Supt. of Public Works, plans re-surfacing street with thin coat of material with asphalt base, within next 3 years.

Ky., Louisville—Bd. of Park Commrs. completed plans for highway link between Crescent Hill and Highlands, connecting main roads in Seneca Park with Beal's Branch road, Cherokee Gardens, and Big Rock road, near Belknap Bridge in Cherokee Park; later to connect with Taylorsville road through Seneca Park opposite King's Highway.

Ky., Murray—City, M. Williams, Clk., plans grading and 17,000 sq. yd. sheet asphalt paving on 4 streets.

Louisiana—Louisiana Highway Comm., Baton Rouge, received low bids for 2 roads: East Feliciana Parish—6.38 mi. Clinton-Baton Rouge road, between Baton Rouge and Clinton, Russell-Bowden Construction Co., Amite, \$49,073; Richland Parish—1.259 mi. Rayville-Oak Ridge Highway, F. D. Harvey & Co., Jonesboro; L. R. Ames, State Highway Engr. 1-24

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids Mar. 12 to furnish shell and build 2 roads: St. Tammany Parish—2.199 mi. Chef Menteur Highway, from northeast end of Rigolets Bridge to intersection with present gravel road, south of Salt Bayou, 6,766 cu. yd. shell; Orleans Parish—4.342 mi. Chef Menteur Highway, for south end of Rigolets Bridge, south, 2,681 mi. cu. yd. shell; L. R. Ames, State Highway Engr.

La., Alexandria—Louisiana Highway Comm., Baton Rouge, plans letting contract in Mar. or Apr. for hard surfaced road, between Alexandria and Bunkie, Rapides Parish; L. R. Ames, State Highway Engr.

La., Arabi—Quartermaster Depot, Poland and Dauphin St., New Orleans, La., receives bids Mar. 6 for 2100 lin. ft. shell roadway in Chalmet National Reservation, Arabi.

La., Lafayette—City plans street paving; L. J. Voorhies, Consist. Engr., Baton Rouge.

La., Many—Louisiana Highway Comm., Baton Rouge, receives bids Mar. 12 for 7.313 mi. Pleasant Hill-Converse Highway, Sabine Parish, from point on Jefferson Highway, in Pleasant Hill to intersection with road north to Pelican and Mitchell; L. R. Ames, State Highway Engr.

La., Many—Louisiana Highway Comm., Baton Rouge, plans receiving bids for 8½ mi. highway from Pendleton Ferry on Sabine River, to Many, Sabine Parish; J. M. Abington, Sec., Parish Police Jury; L. R. Ames, State Highway Engr.

La., Monroe—Louisiana Highway Comm., Baton Rouge, plans starting work by April 1, on hard-surfacing Dixie-Overland highway, between Monroe and Shreveport, Ouachita Parish; L. R. Ames, State Highway Engr.; J. E. Henderson, Ch. of Maintenance, Monroe.

La., Port Allen—City plans laying sidewalks. See Financial News.

La., Shreveport—City, S. G. Wolfe, Sec.-Treas., received low bid from Flenken Construction Co., Shreveport, \$23,100 for asphaltic conc. paving on Reynolds and Hotchkiss St. 2-7

La., Winnfield—Winn Parish Police Jury, A. T. Jewett, Pres., receives bids Mar. 18 for 5 mi. macad. highway, from Winnfield to rock quarry west of Winnfield; M. R. Allen, Advisory Engr.

Md., Baltimore—City, Wm. F. Broening, Mayor, plans widening and paving York road from old city line to new city line; Chas. F. Goob, Ch. Engr.; Nathan L. Smith, Highways Engr.

Md., Upper Marlboro—Prince Georges County considering \$500,000 road building. See Financial News.

Miss., Belzoni—Humphreys County Bd. of Supvrs. plans \$100,000 road improvement in Beat 5; plans road on south side of Yazoo River, as near as possible straight to draw bridge at head of island on Silent Plantation, then intersect with gravel highway of Holmes County, near Logan place, built above high water and graveled. See Financial News.

Miss., Clarksdale—City plans street improvement. See Financial News.

Miss., Clinton—City plans receiving bids about Apr. 1 for extensive street paving; Morgan & Co., Consist. Engr., Jackson, preparing plans.

Miss., Collins—Corvinton County Bd. of Supvrs., Bob Graham, Clk., completed pre-

liminary survey for highway between Mt. Olive and Laurel; bids soon.

Miss., Columbia—Lowndes County Bd. of Supvrs., John J. Richards, Clk., contemplates paving High School Ave. to southern city limits with vitrified brick, cement base, asphalt top dressing; Henry A. Mentz, Engr., Hammond, La.

Miss., Como—Town Bd. plans letting contract within 60 days to conc. main business street; Thomas H. Allen, Engr., Bk. of Commerce Bldg., Memphis, Tenn.

Miss., Hattiesburg—Forrest County Bd. of Supvrs. plans about 5 mi. gravel road in rural sections.

Miss., Holly Springs—Marshall County Bd. of Supvrs., J. T. Wade, Chancery Clk., receives bids Mar. 4 to furnish gravel and build 3½ mi. gravel, Marianna-Orion road; 1,575 tons washed gravel.

Miss., McComb—City, B. E. Butler, Clk., considering paving Jackson and Broad St. and Georgia Ave., to connect with brick highway leading to Magnolia; Henry A. Mentz & Co., Consist. Engr., Hammond, La.

Miss., McComb—City, B. F. Butler, Clk., receives bids Mar. 5 for 2,500 yd. paving, Maryland Ave.; Henry A. Mentz & Co., Consist. Engr., Hammond, La.

Miss., Meridian—Lauderdale County Bd. of Supvrs. plans hard-surfacing Toombs-Keweenaw Highway; will sell bonds to provide county's portion; J. B. Holland, Chancery Clk.

Miss., New Albany—Union County Bd. of Supvrs., T. E. Marshall, Chancery Court Clk., receives bids soon for 100 mi. gravel roads; estimated cost \$200,000.

Miss., Pascagoula—Jackson County Bd. of Supvrs., Fred Taylor, Clk., receives bids Mar. 4 for road from Fontainebleau-Van-cleave road to Ocean Springs-Ft. Bayou road.

Mo., Butler—State Highway Comm., Jefferson City, plans letting contract soon for 15 mi. 20-ft. conc. U. S. Highway No. 71, from end of slab at Butler to Cass County line; survey being made by Paul Lee, Project Engr., and others.

Mo., Clayton, St. Louis—St. Louis County, Walter E. Miller, Clk., received low bid from James T. McMahon Construction Co., 1514 Farragut Ave., for 2 roads: Improve Evergreen Blvd., Scudder to Wabash Ave., \$12,221; McArthur-Scudder road, Lix to Brown road, \$13,377.

Mo., Joplin—City Comm. plans 2 long paving projects on north and south streets and shorter sections on east and west streets in South Joplin.

Mo., Kansas City—City, Matthew S. Murray, Dir. of Public Works, plans widening Warwick Blvd., and Hyde Park Ave., each 15 ft., and grading Cherry St.

Mo., Kansas City—Jackson County, Leo E. Koehler, Highway Engr., receives bids Feb. 26 to grade and drain 13.475 mi. Colburn road, from Jefferson Highway to Sni-Mills, 161,898 cu. yd. excavation and borrow, 59,717 cu. yd. conc. masonry, 62,380 lb. rein. steel for conc. structures; Stayton & Veatch, Consist. Engrs., 508 Interstate Bldg.

Mo., Kansas City—City, Matthew S. Murray, Dir. of Public Works, plans widening Forty-seventh St., to 75-ft., between Troost Ave. and Paseo; extending Paseo, from Admiral Blvd. to Cliff Drive.

Mo., Mexico—City, J. C. Davis, Clk., plans paving Liberty St., Cole to Washington St.; J. H. Lane, Mayor.

Mo., Richmond—City, James P. Wall, Mayor, plans grading, paving with 6-in. conc. and bit. material, conc. integral curbing, and drainage, on Camden Ave.

Mo., Springfield—City, J. P. Ramsey, Commr. of Streets, plans widening Walnut St., Kimbrough to Grant Ave., 38 to 44 ft., cost about \$8000.

Mo., St. Louis—City, Bd. of Public Service, receives bids Feb. 26 to improve Elchelberger St., Ulenia Ave. to Morgan Ford road; Lalite Ave., Kingshighway Northwest to city limits of 1876.

Mo., St. Louis—City, Bd. of Public Service, receives bids Mar. 5 for 36,500 sq. yd. Warrenton bitulithic, amiesite, rein. conc. and vibrolithic paving; W. W. Horner, City Engr.

N. C., Charlotte—City, Marion Redd, Mayor, considering widening and extending South College St., Third to Vance; construct underpass under tracks of Columbia Div. of Southern Ry.; Robert L. Brown, Commr. of Public Works.

N. C., Charlotte—City Comm., Marion Redd, Mayor, plans widening Cecil St., 8 ft. on side of new municipal armory, under construction; probably widen street from Park Drive to Central Ave.

N. C., Conover—Town plans street improvements; preliminary surveys being made



by Spoon & Lewis, Conslt. Engrs., Jefferson Bldg., Greensboro.

N. C., Greensboro—City, P. C. Painter, Mgr., considering extending Greene St.

N. C., Manteo—State Highway Dept., Raleigh, Frank Kugler, State Highway Commr., First Dist., plans making survey for road from Kitty Hawk, Dare County, to Roanoke Island; plans starting construction this fall. 1-10

N. C., Newton—Catawba County Commrs. considering about 6 new roads, totaling 56 mi.; \$32,000 apportioned: 17 mi. highway, from Newton via Startown, Blackburn Section, etc., intersecting with road in Lincoln County, leading to Shelby via Taluca; 8 mi., from Hickory via Brookford to Frank Propst, intersecting with highway from Newton to Shelby; 9 mi., from Hickory via Highlands and St. Stephens Church, intersecting with Highway No. 67, to Taylorsville; 4 mi., from Hickory via Windy City by Mt. Olive Church to Catawba River; 3 mi., from Hickory to Lake Hickory and back to Highway No. 17; 15 mi., from Newton via Highway No. 10, to intersect Mooresville Highway; R. H. Shufford, County Atty.

N. C., Winston-Salem—City, Harry L. Shaner, Commr. of Public Works, receives bids Feb. 25 to pave 2 streets: Ebert St., Hawthorne road to city limits, 4,150 sq. yd. sheet asphalt or Warrentite bit. paving, conc. gutters; Walker Ave., Ebert to Magnolia, 5,550 sq. yd. sheet asphalt or Warrentite bit. 3,750 lin. ft. combination conc. curb and gutter.

Oklahoma—State Highway Comn., Oklahoma City, plans 2 roads: Bryan County—26,000 sq. yd. sheet asphalt, U. S. Highway No. 73, cost \$50,000; Caddo County—survey for grading 6 mi. State Highway No. 62, 30-ft., cost \$25,000; C. R. Mandigo, State Highway Engr.

Okl., Altus—City plans grading and 10-100 sq. yd. conc. paving, Hightower St., cost \$46,600; Peckham & Higgins, Engrs., 603½ W. Main St., Oklahoma City.

Okl., Chattanooga—City plans grading and paving 5 blocks on Third St. 56 in. wide; cost over \$35,000.

Okl., Enid—City plans grading, 8000 sq. yd. conc. paving North Van Buren St.; cost \$25,000; F. C. Magruder, Engr.

Okl., Enid—City plans grading and 10,250 sq. yd. conc. paving, Hillside, Garber and Melton St.; cost \$51,650; F. C. Magruder, Engr.

Okl., Oklahoma City—City, E. M. Fry, Mgr., plans grading, 12,600 sq. yd. conc. paving, East Thirty-eighth St.; cost \$42,000; W. W. Small, City Engr.

Okl., Oklahoma City—Oklahoma County plans 16,000 sq. yd. conc. slab surfacing, East G Ave. road; cost \$38,000; R. S. James, Engr.

Okl., Oklahoma City—Western Paving Co., Petroleum Bldg., low bidder for 2-in. rock asphalt on 6-in. gravel base, Highland Drive; W. W. Small, City Engr.

Okl., Oklahoma City—City, E. M. Fry, Mgr., plans paving Twenty-third St., and Elizabeth Ave., around Grover Cleveland School; W. W. Small, City Engr.

Okl., Pryor—City, F. C. Settle, Engr., receives bids Mar. 5 for rein. conc. paving on 4 streets; estimated cost \$35,000. 2-14

Okl., Pryor—City plans expending \$27,250 for 9100 sq. yd. conc. paving, Mayes and Rogers St.

Okl., Sayre—Beckham County, preliminary plans, grading, 10 mi. graveling, County Road No. 8, 30 ft.; cost \$60,000; R. W. Higgins, Engr.

Okl., Shawnee—City plans expending \$31,680 for grading 6600 sq. yd. sheet asphalt paving, Horton, Groce and Holton St.; E. T. Archer & Co., Engrs., 609 New England Bank Bldg., Kansas City, Mo.

Okl., Tulsa—City Commn., Dan Patton, Mayor, plans widening Fortieth St., Thirty-third West Ave., to Sapulpa road, and paving alley in block 126, Third to Fourth St.; considering widening South Peoria Ave. 1 mi.; K. R. Teis, City Engr.

Tenn., Cleveland—City Commn., considering paving in 5 districts, including Thirty-second, Twenty-sixth, Trunk St.; estimated cost \$100,000; V. Long & Co., Engr., Bennie-Dillon Bldg., Nashville.

Tenn., Madisonville—Dept. of Highways and Public Works, H. S. Berry, Commr., Nashville, considering 6¼ mi. paving, Route 2, Monroe County, from Loudon County line to McMinn County line.

Tenn., Somerville—Fayette County Road Commn., Judge W. T. Liggins, Sec., receives bids Feb. 25 for grading 2 roads: Somerville-LaGrange; Williamson-Macon-Canadaville road; F. S. Parrigan, Engr.

Tex., Alice—Jim Wells County Commrs. Court plans expending \$160,000 as county's portion for 21 mi. road through Jim Wells County, from Alice to Live Oak County line, Road Dist. No. 1. See Financial News.

Tex., Anahuac—Chambers County, Wallisville, Precinct No. 1, plans \$20,000 hand surface road from Jefferson County line to Turtle Bayou. See Financial News.

Tex., Austin—City, Adam R. Johnson, Mgr., receives bids soon for paving First, Second and Third St., South Congress Ave in industrial dist.; later pave Guadalupe St. to north city limits; pave Duval St. in residential section; Hans R. F. Helland, Conslt. Engr.

Tex., Brownsville—Cameron County, Oscar C. Dancy, County Judge, plans 2 roads: 27.8 mi. Highway No. 12-B, Old Military road, from Brownsville to Hidalgo County line; widening pavement 15 to 18 ft. on Highway No. 12, from Harlingen to San Benito; W. O. Washington, Res. Engr.

Tex., Corpus Christi—City, P. G. Lovenskiold, Mayor, receives bids Feb. 23 to widen Leopard St., Carrizo to Artesian St.; widen and pave Staples St., Chamberlain to Kinney; rejected recent bids. 1-31

Tex., Corpus Christi—City, P. G. Lovenskiold, Mayor, received bid from Brown & Root, Georgetown, to widen Leopard St., Last to Sam Rankin St.; H. L. Shaw, City Engr.

Tex., Corpus Christi—City, P. G. Lovenskiold, Mayor, plans expending \$125,000 to widen 10 blocks Chaparral St., approach to Corpus Christi—San Antonio Highway; H. L. Shaw, City Engr.

Tex., Crane—State Highway Comn., R. S. Sterling, Chmn., Austin, acquired north and south highway in Crane County, plans improving road; Ben Allen, County Judge.

Tex., Crosbyton—Crosby County Commrs. Court, Edgar Hutchins, County Judge, plans expending \$40,000 for paving State Highway No. 53, Dickens County line to Crosbyton; State Highway Comn. awarded \$80,000; will sell bonds. 1-7

Tex., Fort Sam Houston, San Antonio—Constructing Quartermaster receives bids Feb. 25 for 3,680 ft. 16 to 36 ft. grading, 14,540 sq. yd. conc., bit. conc., asphaltic conc. or bit. macad. paving, 6,800 lin. ft. conc. curbs, 1,340 sq. yd. cement sidewalks, 8,900 cu. yd. excavation, catch basins, inlets for storm drain; Capt. A. W. Parker, Constr. Quartermaster at post. 12-27

Tex., Fort Worth—City, O. E. Carr, Mgr., considering through traffic thoroughfare, connecting 3 eastern sections of city, from Mansfield road on south to Denton Highway on north.

Tex., Groesbeck—State Highway Comn., R. S. Sterling, Chmn., Austin, plans widening, graveling and asphalt surfacing, State Highway from Navasota River Bridge to Groesbeck, Limestone County.

Tex., Houston—City received low bid from Brown & Root, Georgetown, \$16,385, to gravel on granite gravel base, MacGregor Way, Lawndale Ave. to Idylwood addition; at \$14,265 for mud shell base; J. C. McVea, City Engr.

Tex., Houston—John W. Beall Realty Co., 848 W. 19th St., plans black topping Eighteenth Ave. extension, White Oak road, and West Nineteenth St., in Eureka Acres.

Tex., Junction—City plans 10 blocks street paving in residential section.

Tex., Lufkin—City plans expending \$100,000 for streets improvement. See Financial News. 1-24

Tex., Marlin—City Council, J. M. Kennedy, Mayor, plans expending \$200,000 for street paving; Levi Goodrich, Engr. See Financial News. 1-17

Tex., New Braunfels—Comal County plans grading 8 mi. Highway No. 2, eliminate 2 railway crossings across Missouri, Kansas and Texas R. R.; cost \$90,800; D. M. Neer, Engr.

Tex., San Antonio—City, Paul E. Steffler, Commr., plans opening Richmond Ave., Augusta to Municipal Auditorium, cost \$84,040; extending Thompson Place, Clarissa St., to Somerset road; I. Ewig, City Engr.

Tex., San Antonio—City, C. M. Chambers, Mayor, plans widening 8 blocks East Houston St., 50 to 80 ft.; cost \$50,000; I. Ewig, City Engr.

Tex., San Antonio—State Highway Comn., R. S. Sterling, Chmn., Austin, considering super-highway between San Antonio and Austin; 100-ft. wide, 40-ft. roadway; Gibb Gilchrist, State Highway Engr.

Tex., Waco—City, E. E. McAdams, Mgr., considering paving Herring Ave., Nineteenth to Thirtieth St.; J. H. Strange, City Engr.

Tex., Wellington—Collingsworth County Commrs., R. H. Templeton, County Judge, considering expending \$400,000 to pave county highways. See Financial News.

Virginia—State Highway Comn., H. G. Shirley, Commr., Richmond, receives bids Mar. 5 for 2 roads and 4 bridges: Prince George County—6.2 mi. soil road, Route 407, from point east of Hopewell, 78,638 cu. yd. excavation, 20,210 lb. rein. steel; bridge over 20-ft. over Walls Branch; Washington County—1.6 mi. grade, drain, Route 10, east from Bristol, 34,063 cu. yd. excavation, 6,484 lb. rein. steel; Bedford County—290-ft. bridge over Otter River, Route 10, from point near Goode, one 150-ft. steel truss, and five 25-ft. conc. beam spans, 201,300 lb. struct. steel, 66,690 lb. rein. steel; Henrico County—180-ft. bridge over Chickahominy River, 7 mi. from Fair Oaks, Route 39, two 35-ft. beam spans, two 20-ft. slab spans, 30,357 lb. rein. steel; Amelia County—199-ft. bridge 8 mi. from Amelia, Route 20, two 50-ft. steel beams, one 90-ft. steel truss spans; 174,550 lb. struct. steel; 33,345 lb. rein. steel.

Virginia—State Highway Comn., H. G. Shirley, Commr., Richmond, will build 10 mi. cement highway from Virginia terminal of Arlington Memorial Bridge to Lee Highway, south of Falls Church, Fairfax County. Va., Rosslyn—Quartermaster Supply Officer, Washington, D. C., receives bids Feb. 26 to repair U. S. Military road between Rosslyn and Ft. Myer, Arlington County.

Va., South Boston—Town and State Highway Dept., H. G. Shirley, Commr., Richmond, plan hard surfacing and oiling highway from Wilborn Ave. to Motley's corner.

Va., Winchester—City, L. R. Dettra, Mgr., plans expending \$15,000 to surface and resurface various streets north and south of Boscawen St.; widen South Loudon St.; improve Indian Alley, and conc. streets. See Financial News.

Va., Winchester—State Highway Comn., H. G. Shirley, Commr., Richmond, plans rebuilding and widening Shenandoah Valley Pike, from Winchester to Staunton.

W. Va., Huntington—City Commrs., Fred E. Reed, Jr., Commr. of Streets, receive bids Feb. 23 to grade, curve and pave Third St., East, between Tenth and Eleventh St.

W. Va., Princeton—G. T. Johnson, Mercer County Road Engr., and others, making survey for road from Spanishburg to Matoka, via Pocosin fork, on Rich Creek.

W. Va., Princeton—State Road Comn., J. C. Long, Engr., Charleston, making survey for Princeton-Oakvale Highway, preparatory to paving.

#### Contracts Awarded

Fla., Panama City—State Road Dept., Tallahassee, let contract to McVay Lindsay & Son, Palm Beach, for limestone paving, Gulf Coast Highway, East Bay Bridge to Panama City; Marianna Limestone Products Co., Marianna, will furnish limestone.

Fla., Tallahassee—City let contract to Kennedy Construction Co., Quincy, \$20,272, for street paving.

La., Homer—City Lamonte Seals, Mayor, let contract to N. H. Nattin, Homer, to pave South Main St.; Charles D. Evans, Conslt. Engr., Shreveport. 2-7

Mo., Kansas City—City, Matthew S. Murray, Dir. of Public Works, let contract to pave 5 streets: Washington St., Seventy-fifth to Seventy-seventh, D. T. Brosnahan, 218 City Bank Bldg., \$14,040; Indiana Ave., Charles Gidinsky, 4341 Benton Blvd., \$6,095; to Boyle Construction Co., 7601 Myrtle St., \$6,250, for Flora Ave.; \$6,220, Tracy Ave.; \$6,310, Indiana Ave. 1-17

Okl., Oklahoma City—City, E. M. Fry, Mgr., let contract to Baum Construction Co., to pave May Ave.; W. W. Small, City Engr.

Okl., Tulsa—City, Dan Patton, Mayor, let contract to H. L. Cannady Co., 1112 S. Lewis St., \$17,697, to pave 3 streets: Indianapolis and Jamestown Ave. and alley in block 7, Owen Addition, between Cameron and Brady St.

Tenn., Knoxville—City, H. J. Wight, Engr., let contract to Murray Construction Co., Holston Natl. Bk. Bldg., Knoxville, for 600 sq. yd. 2-in. asphaltic conc. on 6-in. conc. base paving. 2-7

Tex., Amarillo—Potter County Commrs., Sam B. Motlow, County Judge, let contracts for 2 roads: 13 mi. rock and caliche combination surface, Oil Field Highway, J. W. Zempter Construction Co., 2204 B St., Galveston, about \$125,000; 3 mi. gravel surface West Tenth Ave., west of Bivins addition, to McKnight Construction Co., about \$2,000. 2-7

Tex., Asherton—City, Frank Miksch, Sec., let contract to Lone Star Construction Co., Milam Bldg., San Antonio, \$60,000 for 30,000 sq. yd. asphalt and conc. street paving; F. J. Von Zuben, Engr., 611 Waggoner Bldg., Fort Worth. 2-7

Tex., Estelline—Cap Rock Construction Co., Canyon, has contract for several thousand feet sidewalks in residence section.

Tex., Laredo—Webb County, Justo S. Penn, County Judge, let contract to H. B. Zachry, Laredo, \$12,050, for 1½ mi. hard surface Miranda City side road, from Miranda City to State Highway No. 12-A; 18-ft., 8-in. gravel base, Duraco topping, 5-ft. gravel shoulder. 1-24

### Sewer Construction

Sewer construction in **LAND DEVELOPMENT** projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—Bd. of Revenue and Shades Valley residents, W. D. Bishop, local Chrmn., investigating site on Shades Creek near Oxmoor furnaces for \$125,000 sewage disposal plant.

Ala., Birmingham—See Roads, Streets, Paving.

Fla., Jacksonville—City votes in June on \$1,500,000 sewer bonds. See Financial News. 1-10

Fla., Plant City—City, E. H. Thompson, City Mgr., construct septic tank.

Fla., Tampa—W. B. Critchlow interested in installation of sewers to New Suburb Beautiful.

Ga., Cedartown—City will install sewers, water, sidewalks, lights in village of Good-year Tire and Rubber Co., Akron, Ohio.

Ga., Columbus—City votes May 18 on issue of \$400,000 bonds for sewers and \$50,000 park improvement. 10-4

Ga., Rossville—Park Woolen Mills, reported, let contract for sewer connections for 24 homes.

La., Lafayette—City receives bids March 21 for sanitary sewer extensions. See Want Section—Bids Asked.

La., Port Allen—City plans sewer bond issue. See Financial News.

La., Independence—City soon let contract for sewers; \$50,000 available. 12-27

Miss., Duck Hill—See Water Works.

Miss., Hattiesburg—Batson & Reed, Wiggins, Miss., low bidders for laying sanitary sewers and installing septic tanks.

Mo., Billings—City plans water works system; may vote on bonds; Russel & Axon, Const. Engrs., 404 McDaniel Bldg., Springfield.

Mo., Buckner—City install \$25,000 sewerage system; C. A. Haskins, 822 Finance Bldg., Kansas City, Engr.

Mo., Springfield—John Spandri, 1371 N. Jefferson St., has contract at \$12,794 for sanitary sewer system.

Mo., St. Charles—City will probably have plans ready for bids March 1 for extensions of downtown sewer; Burns & McDonnell Engineering Co., Engrs., 402 Interstate Bldg., Kansas City.

N. C., Charlotte—City Comms. receive bids March 7 for laying Briar Creek outfall sewer; W. M. Platt, Const. Engr., First Natl. Bk. Bldg., Durham.

N. C., Durham—City receives bids Feb. 26 for sanitary sewer, furnishing sewer pipe and casings. See Want Section—Bids Asked.

N. C., Goldsboro—City expend \$40,000 for laying two lines of 36-in. storm sewer pipe in Little Washington and Edgewood section.

N. C., Newton—Spoon & Lewis, Const. Engrs., Jefferson Bldg., Greensboro, are making surveys in connection with proposed extensions to sewerage system.

N. C., Wilmington—E. S. Waters, Beaufort, reported, low bidder at \$70,998 for storm drains.

Okla., Cherokee—O. V. Long, Laverne, has contract for sewer extension.

Okla., Frederick—City votes soon on \$35,000 sewage disposal bonds.

Okla., Oklahoma City—City, Wm. W. Small, City Engr., soon call for bids for sewer on Blackwelder Ave.

Okla., Oklahoma City—Fike & Fry Co. has contract for sanitary sewers in Edgemere Park addition.

Okla., Thomas—E. W. Baker, 200 W. 18th St., Oklahoma City, has contract for sewers and disposal plant.

Okla., Vici—City, reported, install \$25,000 sewer system.

Tenn., Knoxville—Lee A. Gridley Construction Co., 1720 Rose Ave., Knoxville, has contract at \$123,066 for Burlington sewer; G. M. Ferris Construction Co., Knoxville, at \$62,575 for Lincoln Park lateral sewer.

Tenn., Sparta—City plans installing sanitary sewer; cost \$75,000.

Tex., Austin—City construct sanitary sewers near State Hospital and Texas School for Deaf; work to begin about March 1.

Tex., Brownwood—City, Palmer McGinnis, Mayor, having survey made by Hawley & Freese, Const. Engrs., 411 Capps Bldg., Fort Worth, for sewer and water works.

Tex., Center—City expend \$35,000 for sewer extensions; Hawley & Freese, Const. Engrs., 411 Capps Bldg., Fort Worth.

Tex., Dallas—See Water Works.

Tex., Tyler—City voted \$75,000 sewer bonds. 1-31

Va., Roanoke—J. R. Vaughan & Co., 210½ Jefferson St., low bidder for sewer between Kirk and Campbell Aves.

Va., Winchester—City voted sewer bonds; will construct sewer on various streets; manholes, replacing old mains with larger ones.

### Telephone Systems

Ark., Pine Bluff—Southwestern Bell Telephone Co., main office, St. Louis, Mo., A. A. Garrett, Dist. Mgr., let contract to E. C. Royce, Arkansas Nat. Gas Bldg., and Earle Royce, 1906 W. 12th St., for exchange addition, Second and Walnut St.; I. R. Timlin, Archt., 1916 Telephone Bldg., St. Louis. 1-24

Ga., Savannah—Southern Bell Telephone and Telegraph Co., main office, Atlanta, authorized construction of toll line with copper circuit from Savannah to Dover, 53 mi., copper circuits from Dover to Rocky Ford, 10 mi., from Rocky Ford to Milden, 12 mi., Milden to Statesboro, giving through circuit to Savannah.

Miss., Brookhaven—Southern Bell Telephone and Telegraph Co., main office, Atlanta, Ga., acquired site, 65x150 ft., East Monticello St., probably erect exchange and office building.

Missouri—Public Service Com. authorized Central Missouri Telephone Co. to acquire and operate properties now owned by Central Missouri Home Telephone Co., Sweet Springs Telephone Co., subsidiaries of Commonwealth Telephone Co., care Patterson, Copeland & Kendall, 231 S. La Salle St., Chicago, Ill.; Missouri River Telephone Co. and Holt Telephone Co., Lafayette Telephone Co., Lafayette, Ind.; includes exchanges at Warrensburg, Holden, Knob Noster, Chilhowee, Centerville, Strausburg, Houstonia, Kingsville, Lexington, Buckner, Dover, Grand Pass, Leveas, Malta Bend, Waverly, Sweet Springs, Elmira, Harding, Orrick, Missouri City, Rayville and Henrietta.

Miss., Starkville—Southern Bell Telephone and Telegraph Co., J. W. Satterwhite, Dist. Mgr., Columbus, expend \$80,000 for improvements to telephone exchange.

Okla., Norman—Southwestern Bell Telephone Co., C. W. Mier, Engr., Oklahoma City, erect addition to telephone building; 2-story, 30x36, conc. brick, rein. conc.; plans to be out about Mar. 1.

S. C., Greenville—American Telephone and Telegraph Co., Inc., G. L. McCullough, Dist. Mgr., erect \$30,000 telephone repeater station; brick, 1-story and basement; 12,000 sq. ft. floor space; Mayre, Alger & Vinour, Archt., Atlanta, Ga.

Tex., Los Fresnos, San Antonio—Rio Grande Valley Telephone Co., J. C. Paxton, Gen. Mgr., McAllen, completing plans for combination telephone exchange and residence; 1-story, frame, 32x36 ft., hardwood floors, comp. and shingle roof; receives bids March 1; A. H. Woolridge, Archt., McAllen.

Va., Richmond—See Ice and Cold-Storage Plants.

Va., Richmond—Chesapeake & Potomac Telephone Co. of Virginia, C. H. Weber, V-Pres., receives bids March 8 for 7-story telephone building, Seventh and Grace Sts.; Voorhees, Gmelin & Walker, Archts., 228 E. 56th St., New York City. 1-31

### Textile Mills

Ga., Cedartown—Goodyear Tire and Rubber Co., Akron, Ohio, plans expansion at Clearwater Mills to consist of 18,000 spindles increasing capacity to 50,800 spindles; no addition to present building; equipment to be installed immediately; company will build 80 dwellings; city to install sidewalks, lights, sewer and water; fabric to be sent from Cedartown to new tire plant at Gadsden over road to be built by state. 2-24

Md., Havre de Grace—Margerison-Binns Co., Front and Lehigh Ave., Philadelphia, Pa., reported, leased portion of Harry D. Brooks Textile Co.'s building; manufacture terry cloth.

N. C., Durham—Louise Knitting Mills, N. Maple St., construct 2 story addition to finishing plant.

N. C., Marion—Sevier Knitting Mill, S. H. Yancy, install 60 machines in units of 15; manufacture men's fancy hose.

N. C., Salisbury—C. H. Deal, Drawer 130, Pres., Character Products Co., Inc., 1124 Main St., Danville, Va., leased building, establish character cloth, and shirt plant; install 16 looms. See Want Section—Machinery and Supplies. 12-20

S. C., Greenville—Union Bleachery will erect textile printing plant and group of buildings of following sizes, which are tentative: Washing room, 105x89 ft., 1 story; cloth roll storage room, 1 story, 53x92 ft.; cloth roll storage and engraving room, 1 story, 80x94 ft.; printing room, 2 story, 80x95 ft.; copper roll storage room, basement, 26x148 ft.; J. E. Sirrine & Co., Engrs., Greenville. 2-14

Tex., San Angelo—A. A. Glover, Pres., San Angelo Bd. of City Development, reported, announced preliminary work completed for woolen mill; plan erection in 1929. 5-10

Va., Narrows—Cavillier Hosiery Mills, Inc., plans enlarging present plant, increasing production of Westover hosiery.

### Water Works

Details of water works improvements in connection with the many **LAND DEVELOPMENT** operations will be found under that classification.

Ala., Holt, Tuscaloosa—City Com. of Tuscaloosa, reported, negotiating for Holt water works system.

Ala., Sylacauga—City plans water works system; having survey made.

Ga., Alto—Arthur Pew, Jr., Red Rock Bldg., Atlanta, has contract at \$42,750 for installing water works units, also for 1100 yds. grading; Weideman & Singleton, Engrs., Candler Bldg., Atlanta.

Ga., Cedartown—See Sewer Construction.

La., Saint Bernard—St. Bernard Parish plans constructing water system Arabi to Violet; may vote on bonds.

Miss., Crystal Springs—City let contract to Central Foundry Co., Comer Bldg., Birmingham, Ala., for laying 6-in. water mains.

Miss., Duck Hill—City having survey made by M. L. Culley, Const. Engr., Lampton Bldg., Jackson, for water works and sewerage system.

Okla., Davidson—J. D. Mann & Co., Petroleum Bldg., Oklahoma City, reported, has contract for water works distribution system.

Okla., Shawnee—City, reported, having surveys made for impounding water reservoir supply.

Tenn., Bristol—City plans issuing bonds for water works. See Financial News.

Tenn., Mountain City—City plans voting on water bonds. See Financial News.

Tex., Brownwood—See Sewer Construction.

Tex., Columbus—A. N. Evans has contract for building to house engines, pumps and dynamos of water works system; brick and duntile; fireproof.

Tex., Corpus Christi—Bd. of Directors, Nueces County Water Improvement Dist. No. 1, receives bids March 2 for c. i. pipe and fittings. See Want Section—Bids Asked.

Tex., Dallas—City, J. B. Winder, Ch. Engr., Water Supply Division, receives bids Mar. 15 for water works improvements. See Want Section—Bids Asked.

Tex., Linden—City contemplated water works and sewer system; Koch & Fowler, Const. Engrs., Central Bk. Bldg., Dallas.

Va., Danville—City plans issuing \$40,000 water improvement bonds, plans laying water main.

Va., Narrows—City having survey made by J. B. McCrary Engineering Corp., Atlanta, Ga., for streets, sewerage and water system.

Va., Norfolk—Bd. of Supervisors of Norfolk County and city plan water mains to Portlock; cost \$15,000.

### Woodworking Plants

Ga., Waynesboro—Southern Hardwood Lumber Co., C. H. Thompson, Clements, Ind., erect \$100,000 hardwood and veneering plant; will employ about 300.

N. C., Haynesville—J. S. Foard and R. H. Foard, both Cleveland, N. C., erect large veneer plant; soon begin construction.

N. C., Mt. Airy—Mt. Airy Chair Co. installing Moore hardwood kiln for seasoning



hardwood furniture stock, from Moore Dry Kiln Co., 843 Blanche St., Jacksonville, Fla.

Tenn., Knoxville—Sterling Wood Products Co. let contract to J. M. Dunn & Eon, 245 Broad St., for addition to auto body parts manufacturing plant; 175x215 ft., conc. steel, brick.

Va., Richmond—See Foundry and Machine Plants.

W. Va., Wheeling—Ohio Valley Cabinet Co. incorporated; Nelson C. Hubbard, Wheeling Steel Bldg.

## FIRE DAMAGE

Ala., Decatur—Alabama Handle Works' plant; loss \$25,000.

Ala., Huntsville—Top floor of Post Office, S. H. Murphy, Postmaster; loss \$10,000.

Ark., De Queen—W. G. Marris' jewelry store.

Ark., Parkin—S. W. Sterling's residence near Parkin; loss \$15,000.

Ark., Russellville—Agricultural Engineering Dept. of Arkansas Polytechnic College; loss \$125,000.

D. C., Washington—Hub Furniture Co.'s warehouse, N. Capitol and Pierce Sts., N. E.

Ga., Franklin—News and Banner, newspaper and job printing plant; P. T. McCutcheon, Editor and Prop.

Ga., Wadley—W. H. Donovan's residence; loss \$6,000.

Ky., Lexington—Main building, St. Joseph's Hospital; loss \$100,000 to \$150,000.

Ky., Louisville—Dr. Robt. L. Woodard's residence, Longview Station, off River Rd.; loss \$20,000.

Ky., Louisville—Building at 417 S. 4th St. occupied by Boston Shoe Co., Art Embroidery Co., Conrad Display Service; loss \$40,000.

La., Elton—Warehouse of Putnam Company, Inc.

La., Lobdell—Residence on Highland Plantation near Lobdell, owned by Alford Estate, occupied by Mr. Major, plantation manager.

La., Marksville—Anthony Couvillion's residence near Marksville.

La., Robson—J. E. Cupples' residence; loss \$10,000.

Md., Baltimore—Pecan Clothes factory, 932-4-6 N. Broadway.

Md., Frederick—Anthony Wayne Hotel; loss \$50,000. Address The Proprietor.

Md., Hagerstown—Cedar Grove Mennonite Church, Greencastle-Clearfoss Pike; loss \$10,000. Address The Pastor.

Md., McDaniel—Ben Laird's residence near McDaniel; loss \$8,000.

Md., Raspeburg, Baltimore—Mrs. Caroline Weinberger's residence, McCormick Ave.; loss \$10,000.

Miss., Clarksdale—F. Frank's building; F. Balicer's store; loss \$20,000.

Miss., Hattiesburg—Cameron Brothers Wholesale Grocery Co.'s building.

Miss., Jackson—Louis Jordan's residence, 1600 Devine St.; loss \$10,000.

## BUILDING NEWS

### BUILDINGS PROPOSED

#### Association and Fraternal

Ky., Middlesboro—Salvation Army, Dr. J. H. Brooks, Chmn., Bldg. Comm., plans building.

N. C., Durham—Benevolent Protective Order of Elks considers erecting 3-story store and lodge bldg., Roxboro St.; gymnasium, swimming pool and bowling alleys in basement.

Okla., McAlester—Masters of Bodies of Ancient and Accepted Scottish Rite, Golden Pennebaker, Sec., is considering bids of J. H. Reddick, Fort Smith, Ark., Blaser-Vollmer Construction Co., and Messenger & Dalton for rebuilding Scottish Rite Temple; \$600,000 to \$700,000; Wm. T. Schmitt and Hawk & Parr, Archts., 1019 First Natl. Bk. Bldg., Oklahoma City. 1-10

Tenn., Knoxville—Salvation Army, 4301 Ave. G, plans \$50,000 fund campaign, including \$25,000 for addition.

Miss., Tupelo—State Theater, Troy and Broadway, owned by C. M. Moore and W. A. Gregory; loss \$250,000.

Mo., Gainesville—Alva McDonald's general store; Mrs. Hazel Lightner's grocery store.

Mo., Cape Girardeau—Roy Killian's residence, North Boulevard and Berling Lane.

Mo., Gainesville—A. D. McDonald's general store, Willard Boone's store.

Mo., St. Louis—Apartment, 4056 Cleveland Ave., owned by E. and S. Funk; building, 4317 Lindell Blvd., owned by F. W. Kleine.

Mo., St. Louis—Burnett Bldg., Whitelaw and Ferguson Aves., owned by A. G. Burnett, occupied by Wood River Public Library, drug store of Raymond Stocker, offices of Drs. W. G. Tomkinson and J. H. Wedig; loss \$50,000; Mrs. Virginia Reese's building, 5602 Vernon Ave., occupied by Wm. E. Trowel.

N. C., Charlotte—Warehouse of England Waste Co., E. Second St. and Southern Rwy.

N. C., High Point—Building occupied by Highpoint Mfg. Co., furniture manufacturers; R. L. Terry, owner, and Carolina Wood Carving Co.; loss \$50,000.

N. C., Mt. Airy—A. G. Bowman's store; Wagoner's Five and Ten Cent store; Granite Mercantile Co.'s store.

N. C., Potocasi—School building; loss \$17,000. Address Northampton County Bd. of Education, Jackson.

Okla., Canadian—Post Office, address The Postmaster, and two stores; loss \$50,000.

Okla., Oklahoma City—Mid-West Film Exchange, 119 S. Hudson Ave.; loss \$100,000.

Okla., Roxana—Refining plant of Shell Petroleum Corp.; loss \$175,000.

Okla., Sperry—Belle Cafe; Post Office (address The Postmaster); loss \$30,000.

Okla., Tipton—N. Swyden's dry goods store.

S. C., Florence—W. R. Rembert's country residence, Black Creek.

S. C., Sumter—Buildings on E. Liberty St., occupied by M. L. Boykin, tailor; H. S. McCree and Wilkins & Gibson, cotton buyers; H. Bartlett's shoe shop.

Tenn., Clarksville—C. A. Garvin's store, Brenner Furniture Co.'s store, building owned by Mrs. Frank Silvermann, Asheville, N. C.; loss \$20,000.

Tenn., Memphis—R. Lee Saunders' residence; loss \$15,000.

Tenn., Rogersville—Oak Hill School. Address Bd. of Education.

Tenn., Westmoreland—Shelby Graves' store and 4 other buildings; loss \$25,000.

Tex., Austin—Delta Theta Phi Fraternity house, 2600 Guadalupe St.

Tex., Plainview—O. B. Jackson's wholesale meat packing house; loss \$25,000.

Tex., San Saba—Palace Theater, C. W. Doffmeyer, Mgr.; loss \$20,000.

Va., Lynchburg—Freight station of Southern Railway Co., G. L. Sifton, Ch. Engr., Charlotte, N. C.; loss \$50,000.

Va., Richmond—Columbia Furniture Co.'s store and William Bell Inn, 213 W. Broad St.; loss \$100,000.

Va., Roanoke—Bode Millinery & Clothing Store, Roanoke Cycle Co.'s building; loss \$40,000.

W. Va., Parkersburg—State Theater, Troy and Broadway, owned by C. M. Moore and W. A. Gregory; loss \$250,000.

Ga., Atlanta—Retail Credit Co., Cator Woolford, 90 Fairlie St., erect 6 additional stories to 3-story office bldg.; rein. conc. and brick, conc. and terrazzo floors, tar and gravel roof, steam heat; Morgan, Dillon & Lewis, Archts., Grant Bldg.

Ga., Columbus—Tom Huston Peanut Co. having plans completed by T. Firth Lockwood, Archt., Murrah Bldg., for brick, tile and rein. conc. office bldg.; 1 story and tower, 64x80 ft., built-up roof, warm air heat. 01-11

Miss., Clarksdale—Bank of Clarksdale erect 2-story brick and stone trim bank building; architect under consideration.

Miss., Senatobia—Herbert Holmes, Atty., erect office building.

Mo., Clayton, St. Louis—Trust Co. of St. Louis County plans bank bldg., Central Ave.

Okla., Oklahoma City—South Oklahoma National Bank, 2527 S. Robinson St., Glen L. Dark, Pres., organized; plans building or improvements to existing structure, latter part of year.

Tenn., Elizabethton—B. W. Birchfield erect 2-story office bldg., Elk Ave.; probably start work within 30 days.

Tenn., Memphis—First National Bank let contract in about 30 days for \$100,000 addition, Madison Ave. and Second St.; rein. conc. and brick, 3 stories; Jones & Furbringer, Archts., Porter Bldg. 8-2

Tex., Austin—Austin National Bank, C. M. Bartholomew, Cash., plans fireproof bank bldg., Congress St. near Fifth St.; 2 stories and mezzanine; 48x100 ft., brick and rein. conc., stone front; raise structure on site; Page Bros., Archts., Austin Natl. Bk. Bldg. 8-2

Tex., Fort Worth—Fort Worth Gas Co., O. K. Shannan, Pres., has low bid at \$202,170 from Chas. L. Hudgens, 2617 Bomar St., for office bldg., Monroe St.; wiring bid, Shotts Electric Co., 211 W. Eighth St., at \$10,461; plumbing, A. F. McLain, 39 Jennings St., at \$18,190; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg.; John B. Hawley and S. W. Freese, Consult. Engrs.; M. C. Nichols, Asso. Consult. Engr., all Capps Bldg. 2-7

Va., Richmond—Chesapeake & Potomac Telephone Co., C. H. Weber, Vice-Pres., receives bids March 8 for administration and equipment building, Seventh and Grace Sts.; brick, stone trim, 7 stories and basement and sub-basement, 75x144 ft., 3 elevators; Voorhees, Gmelin & Walker, Archts., 228 E. 56th St., New York; foundation and steel contracts let. See Telephone Systems. 9-20

#### Churches

Ala., Anniston—Parker Memorial Baptist Church, Rev. J. T. McGlothlin, Pastor, erect \$50,000 Sunday school. Address The Pastor.

Ala., Dothan—Temple Emanu-El, Myer Blumberg, member, erect \$20,000 synagogue.

La., Baton Rouge—Emanuel Baptist Church having plans drawn by H. Beauchamp, 3205 Drexel Drive, Dallas, Tex., for \$50,000 church and \$25,000 Sunday school; latter to be erected first. 8-23

Md., Baltimore—Lafayette Square Presbyterian Church, Rev. Hardigg Sexton, Pastor, erect building, Edmondson Ave. and Winans Way, Hunting Ridge; probably erect \$50,000 Sunday school as first unit; plans being drawn by Dept. of Architecture of the Presbyterian Church of U. S. A., 156 5th Ave., New York; auditorium and social hall later.

Miss., Ripley—Baptist Church, Fellowship, Rev. C. S. Wales, Pastor, considers erecting brick veneer building.

Mo., Cape Girardeau—First Presbyterian Church probably be ready about March 15 for bids on remodeling church and erecting Sunday school; \$40,000, brick, 2 stories and basement, 38x86 ft., hardwood floors, slate roof; J. Hal Lynch & Son, Archts., Dolph Bldg., St. Louis, Mo. 11-29

Okla., Ada—Methodist Church, Rev. John Smith, Pastor, probably call for bids about March 1 for brick and rein. conc. bldg.; \$150,000, 3 stories, 160x100 ft., cement and linoleum floors, slate roof, hollow tile, metal lath, steel sash, waterproofing; Albert S. Ross, Archt. 11-8

Okla., Muskogee—St. Pauls M. E. Church, South, rebuild structure lately noted burned at \$40,000 loss; architect not employed; H. H. Neiman is member of Board; probably cement foundation; other details not determined; address equipment proposals to Rev. C. D. Montgomery, Pastor, 206 S. Seventh St.; other proposals to J. T. Griffin, care Griffin Grocery Co. See Want Section—Building Material and Equipment. 2-7

Tenn., Knoxville—Virginia Avenue Methodist Church, Rev. C. M. Fisher, Pastor, erect bldg., Keith Ave. and Schofield St.

Tex., Fort Worth—Magnolia Ave. Christian Church, Rev. Leslie Finnell, Pastor, raising funds for Sunday school; \$45,000 already available.

Tex., San Antonio—Harlandale Methodist Church, Rev. Olin W. Nail, Pastor, erect \$20,000 superstructure; foundation in; Morris & Noonan, Archts., Bldrs. Exch. Bldg.

Tex., Weatherford—Church of Christ erect Sunday school annex; stone, 1 story and basement, assembly room, 6 classrooms. Address The Pastor.

Va., Abingdon—Sinking Springs Presbyterian Church, Rev. J. G. Patton, Jr., Pastor, erect \$30,000 Sunday school; brick, stone trim; accommodate 600; dining room seat 250; D. R. Beeson, Archt., Johnson City, Tenn.

Va., Norfolk—First Lutheran Church put plans out March 1 for bids on church and Sunday school, Colley Ave. near Maury Place; Collegiate Gothic type, stone, auditorium 110x49 ft., seat about 600; Sunday school accommodate 1000; Calrow, Browne & FitzGibbon, Archts., Royster Bldg. 1-20-28

### City and County

Fla., Tampa—Hillsborough County Comsn., J. W. Lester, member, erect \$20,000 convict camp near Craft Springs; steel and conc., accommodate 150.

Ga., Atlanta—City Park Comsn. erect \$10,000 golf clubhouse, John A. White Park; stone and brick, 1 story and basement, 38x62 ft., tile roof, hot air heat; Edwards & Sayward, Archts., 101 Marietta Bldg.; owner builds.

Ga., Cynthiana—City, John M. Cromwell, Mayor, have plans ready about 2 months for \$50,000 city hall; brick, conc., stone and mill constr., 2 stories, 60x120 ft., conc. and wood floors, conc. foundation, comp. roof; H. A. Churchill & John Gillig, Archts., Fayette Bank Bldg., Lexington. See Want Section—Building Material and Equipment. 2-14

Ga., Columbus—City may vote May 18 on \$30,000 jail and stockade bonds; 3 buildings; brick, conc. and steel, 1 and 2 stories; cell work; G. N. Mitcham, City Engr. See Buildings Proposed—Hospitals, Sanitariums, etc.)

Ky., Louisville—Jefferson County Bd. of Commrs. considers floating \$5,000,000 bond issue for new courthouse.

Md., Baltimore—Board of Awards, Chas. F. Goob, Ch. Engr., rejected bids for courthouse repairs. 2-14

Miss., Jackson—Hinds County Bd. of Supvrs., selected Claude H. Lindsley, Lamar Life Bldg., as architect for courthouse. 1-31

N. C., Monroe—Union County Bd. of Commrs. rebuild county home recently noted burned; \$150,000; Ira J. Tucker, Archt. 1-17

N. C., Waynesville—Haywood County Grand Jury, Judge P. A. McElroy, recommended new courthouse and jail.

Tenn., Morristown—City, J. E. Burke, Mayor, considers erecting fire station and jail.

Tex., Austin—City, Adam R. Johnson, City Mgr., receives bids Feb. 28 for 2 fire stations, 43rd St. and Speedway, and 21st St. and East Ave.; brick and conc., 1 story, cement and wood floors, built-up and asbestos shingle roofs; \$30,000; Giesecke & Harris, Archts., 207 W. Seventh St. 12-6

Tex., Galveston—Galveston County Bd. of Commrs., C. C. Washington, County Engr., will select architect for \$60,000 court of civil appeals bldg., \$25,000, jail annex and bldgs. at League City Park to cost \$14,000. 12-13

Tex., San Antonio—City, C. M. Chambers, Mayor, erect \$15,000 rest room bldg., Main Plaza; stone and rein. conc., 1 story; Chas. Boelhaue, Archt., Aztec Bldg.

Tex., San Antonio—City, Phil Wright, Fire and Police Commr., receives bids Feb. 25 for Fire Station No. 14, Live Oak and Milam Sts.; brick and rein. conc., 2 stories; Albaugh & Steinbomer, Archts., Real Est. Bldg.; Lilly-Drought Co., Engrs., Frost Bldg. 11-15

Tex., San Antonio—City, Phil Wright, Fire and Police Commr., rejected bids for Fire Station No. 13, S. Presa and Hicks Sts.; \$30,000; Phelps & DeWees, Archts., Gunter Bldg.; W. E. Simpson & Co., Engrs., Natl. Bk. of Commerce Bldg.

Tex., San Antonio—City, Phil Wright, Fire and Police Commr., has plans about completed for Fire Station No. 8, Buena Vista and Calavaras Sts., Paul G. Silber & Co., Archts., and Homer M. Matthews, Engr., both Bedell Bldg.; also for Fire Station No. 6, 501 W. Russell Place, Henry T. Phelps, Archt., Hicks Bldg., and W. E. Simpson & Co., Engr., Natl. Bk. of Commerce Bldg.

Tex., San Antonio—City, C. M. Chambers, Mayor, plans to restore old Governor's Palace.

Tex., Tyler—City, Lee H. Powell, City Mgr., voted \$30,000 bonds for erecting and equipping fire station. 1-31

Tex., Wichita Falls—Lions Club, Bart Magee, interested in raising funds for \$10,500 building, Municipal Zoo.

Va., Chatham—District Almshouse Bd. receives bids March 1 for constr., heating and plumbing for district almshouse for Campbell, Amherst, Pittsylvania, Henry and Halifax counties; plans from E. C. Lacy, Sec. Treas., Halifax, or from C. H. Hinnant, Archt., Peoples Bk. Bldg., Lynchburg. 12-13

### Dwellings

Ala., Birmingham—H. F. Wilson, 2101 S. 11th St., erect \$10,000 residence; brick veneer, 1 story; Chas. H. McCauley, Archt., Jackson Bldg.; bids in.

D. C., Washington—C. H. Small, 925 15th St., erect 2 brick dwellings, 3501-05 Reno Rd., N. W.; 2 stories; \$25,000.

D. C., Washington—Waple & James, 1116 14th St., N. W., have permit for 4 dwellings, 5814-20 Fourth St., N. W.; 2 stories, brick; \$20,000.

D. C., Washington—P. J. Grady, Investment Bldg., has permit for frame dwellings, 2019-25 Quincy St., N. E.; 2 stories; \$22,000.

D. C., Washington—Thos. A. Jameson, 906 New York Ave., N. W., erect 10 brick dwellings, 1519-37 Isherwood St., N. E.; 2 stories; \$50,000.

D. C., Washington—Robt. E. Kline, Jr., 2304 Tunlaw Rd., N. W., erect 9 brick dwellings, 208-24 Reno Rd., N. W.; 2 stories; \$45,000.

Fla., Miami Beach—Wm. R. Wood, care Paist & Stewart, Archts., Art Center Bldg., Coral Gables, receives bids March 1 for residence and garage, 43rd St. and Pinetree Drive; conc., 2 stories; following contractors estimating: Sandquist & Snow, Inc., Calumet Bldg.; John B. Orr Co., 147 N. E. Sixth St.; R. G. Witters Co., 1745 S. W. Sixth, all Miami; Beach Construction Co., 1327 Twentieth St., Miami Beach.

Fla., Miami Beach—Robt. E. Law erect 2-story residence, Pine Tree Drive; 106x97 ft.; W. C. DeGarmo, Archt., 39 S. E. Sixth St., Miami.

Fla., Miami Beach—M. J. Roughan, Bldr., Miami, erect \$60,000 Italian type residence, Bay Rd.; rein. conc., fire and storm proof, Spanish tile roof, mosaic and Spanish tile floors, 5 baths; 3-car garage with laundry and servants' quarters; Wm. Arthur Bennett, Archt., Real Estate Bldg.; owner builds.

Fla., Orlando—H. M. Sinclair, Toledo, O., erect \$25,000 Spanish type residence, Osceola Ave.; L shape, 85 ft. long, hollow tile and stucco, cast stone trim, wrought iron balconies, Pittman-Sipple mission tile roof, 2 tile baths; Maurice Kressly, Archt., Smith Bldg.; A. W. Spinney, Contr.

Ga., Atlanta—F. E. Gollan, 101 Marietta Bldg., rebuild burned residence; Howell Mill Road; \$40,000.

Ga., Atlanta—E. W. Romberger, 142 Spring St., N. W., erect \$30,000 residence to replace burned structure, Austell Way, N. E.; brick veneer, stone trim, 2 stories and basement, slate roof; Owen J. Southwell, Archt., Haas-Howell Bldg.

Ga., Atlanta—Mrs. E. F. Helsten, 330 Eighth St., N. E., erect \$10,000 residence; brick veneer, 2 stories and basement, hardwood floors, comp. shingle roof, 2 tile baths, hot air heat.

Ga., Atlanta—Harry L. English, Fourth Natl. Bk. Bldg., plans \$50,000 residence, vicinity Paces Ferry Rd.; English type, brick, 2 stories and basement, hardwood and tile floors, slate or tile roof, steam heat.

Ga., Cedartown—Goodyear Tire & Rubber Co., Akron, O., erect 80 additional dwellings, Goodyear-Clearwater Mills. 2-14

Ga., Rome—American Chatillon Corp., 393 Seventh Ave., New York, probably let contract in few weeks for additional dwellings; Lockwood Greene Engineers, Inc., Archts., 100 E. 42d St., New York. 12-20

La., New Orleans—Edw. L. Markel, 3838 Louisiana Ave. Pkwy., erect \$10,000 single dwelling, Hentilly St. near Iris St.; 1 story, tile roof.

La., New Orleans—Lars Jensen has low bid at \$57,872 from J. A. O'Brien, Louisiana Bldg., for 6 duplexes, Central Ave. near Metairie Ridge; F. P. Dufrechou, Archt., Balter Bldg. 2-7

Md., Baltimore—Harold Holmes Wrenn, Archt., 5 E. Franklin St., erect residence, Belvedere Ave. near St. Albans Way, Homeland.

Md., Baltimore—Mueller Construction Co., Gunther Bldg., erect 14 brick dwellings, 3700 block Ellerslie Ave.; 2 stories, 7 rooms and bath; \$45,000.

Md., Baltimore—Dr. Clyde V. Matthews, 5 W. Preston St., erect Georgian type residence, Kerneway and Cold Spring Lane, Kernewood; 2½ stories, 11 rooms, 4 baths; Peyton B. Strobel Construction Co., Contr., 206 Lexington St.

Md., Baltimore—Wm. H. Price, Jr., First Natl. Bk. Bldg., erect \$15,000 residence and garage, 310 Broxton Rd., Homeland; frame, 2 stories.

Md., Baltimore—Donohue Home Building Co., Lexington Bldg., erect 120 brick dwellings, Newkirk, Ponca and Oldham Sts.; 2 stories; \$240,000.

Miss., Jackson—Solvent Investment Co., R. H. Green, Pres., 605 S. Gallatin St., erect 2 brick veneer dwellings, connection with development near Jackson; others as demand requires.

Miss., Shannon—R. W. Edgeworth rebuild burned residence; 2 stories and basement. N. C., Asheville—American Enka Corp., 114 E. 42nd St., New York, has low bid from Townsend Lumber Co., Anderson, S. C., for 90 operatives' cottages; frame and brick, pine floors, comp. shingle roofs; Lockwood Greene Engineers, Inc., Archts.-Engrs., 100 E. 42nd St., New York. 11-18

N. C., Durham—Mrs. Bertha Thompson, 806 Third St., rebuild residence, \$10,000.

Okla., Tulsa—H. B. Smith, Sinclair Bldg., call for bids about March 1 for stone residence and garage; 2 stories and basement, L shape, 60x60 ft., oak floors, slate or tile roof, steam or fan blast heat; Donald McCormick, Archt., Atlas Life Bldg. 12-13

Okla., Tulsa—Sam Canterbury erect brick residence and garage; 2 stories and basement, 40x80 ft.; A. M. Atkinson, Archt., Mid-Continent Bldg.

S. C., Columbia—Associate Reformed Presbyterian Church erect \$10,000 dwelling, 1809 Bull St.; brick veneer, 8 rooms. Address The Pastor.

S. C., Spartanburg—Draper Corp., Hope-dale, Mass., erect 10 dwellings; J. E. Sirrine & Co., Engrs., Greenville; bids in.

Tenn., Chattanooga—D. M. Patten, River-view, has low bid from Selman-O'Brien Construction Co., Hixon Park, Chattanooga, for \$150,000 residence; Pringle & Smith, Archts., Norris Bldg., Atlanta, Ga. 2-14

Tenn., Knoxville—W. W. Woodruff, 424 S. Gay St., has permit for \$32,000 residence, Melrose Ave.

Tenn., Knoxville—F. G. Scott has permit for \$12,000 residence, Woodbine Ave.

Tenn., Knoxville—Harmon Kreiss, care Cooper-Coffman, Inc., erect \$15,000 residence, Holston Hills.

Tenn., Knoxville—John Ayres, care Cooper-Coffman, Inc., erect \$15,000 residence, Holston Hills.

Tenn., Knoxville—Brown Webb, care Cooper-Coffman, Inc., erect \$15,000 residence, Holston Hills.

Tenn., Lookout Mountain—C. B. Davis, Pres., C. B. Davis Engineering Co., Brown-Marx Bldg., Birmingham, Ala., reported, plans residence.

Tenn., Memphis—Louis Burchart erect English type residence, 100-acre tract, Raleigh Rd.

Tex., Austin—Dr. E. O. Chilmene, Asst. City Health Officer, erect Spanish type residence, Enfield; Page Bros., Archts., Austin Natl. Bank Bldg.; plans completed.

Tex., Austin—Roy L. Thomas, Archt., Littlefield Bldg., completed plans for 2-story stucco dwelling, 15th and Brazos Sts.

Tex., Austin—Felix Smith, 2102 Pearl St., erect \$25,000 residence, 19th and Purl Sts.; Roy L. Thomas, Archt., Littlefield Bldg.

Tex., Austin—Clarence Covert, care Covert Motor Co., 321 W. Sixth St., erect \$25,000 residence, Enfield; Italian type, 2 stories; Page Bros., Archts., Austin Natl. Bank Bldg.

Tex., Brownsville—Lic E. Urtusastegui erect \$15,000 Spanish type residence, Los Ebanos Addition; hollow tile and stucco, 2 stories, 10 rooms, 2 baths, hardwood floors, tile roof; Ben C. Clark, Archt.

Tex., Brownsville—Ben C. Clark, Archt., drawing plans for \$16,000 Spanish type dwelling, Los Ebanos Addition; hollow tile and stucco, 2 stories, 9 rooms, 3 baths, hardwood and tile floors, tile roof.

Tex., Brownsville—Roy C. Sethman erect \$10,000 Spanish residence; hollow tile and stucco, 2 stories, 8 rooms, hardwood and tile floors, comp. roof; A. A. Callaway & Co., Archts., Merchants Bank Bldg.

Tex., Brownsville—Fausto Yturria erect \$12,000 residence; hollow tile and stucco, 1 story, 10 rooms, hardwood and tile floors, tile roof; E. G. Holliday, Archt.; plans completed.

Tex., Clear Lake—Mrs. H. W. Fletcher plans Summer residence, Webster-La Porte



Rd.; Jos. Finger, Archt., Keystone Bldg., Houston.

Tex., Corpus Christi—Lem Harbaugh, Midland, Ind., plans residence.

Tex., Dallas—Pringle-Eubanks Co. erect 19 cottages, Burger St.; frame, 5 rooms; \$27,550.

Tex., Houston—Jas. E. Smith, Public Natl. Bank Bldg., erect \$10,000 residence, 2537 Prospect St., Riverside Terrace; brick veneer, 2 stories, 8 rooms.

Tex., Houston—Mrs. Katherine B. Mott considers erecting \$30,000 dwelling, 2511 MacGregor Way, Riverside Terrace.

Tex., Houston—H. H. Orem, 1204 Welch Ave., erect \$10,000 brick veneer residence, 2505 Pelham Drive; 2 stories.

Tex., Houston—G. G. McCoy erect residence, 406 Hutcheson St.; brick veneer.

Tex., Houston—C. H. Clark erect 3 dwellings, 314-18-402 Saulnier St.; brick veneer, 10 rooms; \$24,000.

Tex., Houston—H. H. Yates, Humble Bldg., erect \$10,000 dwelling, 4314 Garrett St.; brick veneer, 10 rooms.

Tex., Houston—E. E. Jones, care Berger Manufacturing Co., 1413 Fannin St., plans Colonial residence; brick veneer, 2 stories, 8 rooms, steel frame.

Tex., Houston—Chas. Murphy, Union Natl. Bk. Bldg., erect \$10,000 residence, 127 Quitman St.; brick veneer, 7 rooms.

Tex., Houston—W. O. W. Smith, 1012 Bagby St., erect \$10,000 dwelling, 2616 Oak Dale St.; brick veneer, 6 rooms.

Tex., Houston—E. L. Crain, 202 Fannin St., erect \$25,000 residence, 2605 N. Calumet St.; frame, 11 rooms.

Tex., Houston—J. W. Lander erect \$11,000 residence, 2401 Riverside St.; brick veneer, 7 rooms.

Tex., Mercedes—H. Hartman erect \$10,000 Colonial residence; brick veneer, 1 story, 7x40 ft., 6 rooms, hardwood floors, tile roof; W. R. Varner, Archt., Harlingen.

Tex., Mission—M. C. Jeffries erect hollow tile and stucco residence; 1 and 2 stories, 6 rooms, 2 baths, hardwood floors, tile roof; Decker & Tanner, Archts.

Tex., Mission—Dr. M. Smith erect white-washed brick residence; 2 stories, 7 rooms, 2 baths, hardwood floors, shingle roof; Decker & Tanner, Archts.

Tex., San Antonio—Hugh Dickson, care Kelwood Co., Archt., Travis Bldg., remodel and enlarge residence, Belknap and W. Hulsache Sts.

Tex., San Augustine—W. R. Thomas erect \$10,000 English type residence; brick veneer; Claud Barron, Contr., Center.

W. Va., Charleston—Mrs. W. A. Roebing remodel and enlarge residence, 64 S. Battery St.; \$10,000.

### Government and State

D. C., Washington—Library of Congress, W. C. Bond, Supt., Library Bldg., receives bids Feb. 25 for 3 additional decks and reconstructing 1 deck of Southeast and East Book Stacks; decks to have steel frame with plate steel floors covered with cork carpet; changes to involve new elevator machinery for 3 elevators and new heating and ventilating system; \$400,000; Pierson & Wilson, Archts., Hill Bldg. 10-11

D. C., Washington—Additional contractors estimating on \$17,000,000 bid. for Dept. of Commerce, bids March 27 by Treasury Dept., Jas. A. Wetmore, Act. Supv. Archt.: General James Baird Co., Inc., 1800 E St.; Cranford Co., 3056 K St. N. W.; Schroder & Kopee, Inc., 420 Lexington Ave., New York; Mellon-Stuart Co., Oliver Bldg., Pittsburgh, Pa.; elevators, Westinghouse Electric Elevator Co., 13th and Walnut Sts., Philadelphia; York & Sawyer, Archts., 100 E. 42nd St., New York. 2-14

Miss., Biloxi—Mississippi Bldg. Comsn., Jackson, Brig.-Gen. J. M. Hairston, Adjt.-Gen., receives bids until March 7 for assembly hall and caretaker's quarters and Y. M. C. A. and canteen building, Camp Benj. F. McClellan; separate bids for elect. work and plumbing; \$20,000; plans from Shaw & Woleben, Archts.-Engrs., Gulfport.

### Hospitals, Sanitariums, Etc.

Ark., Pine Bluff—Jefferson County Comsn., R. H. Williams, County Judge, remodel hospital, West Pine Bluff.

Ga., Columbus—City Comsn. may call election May 18 on \$1,200,000 bonds, including \$115,000 for city hospital addition and \$30,000 for jail and stockade; hospital brick, conc. floors and stairs, 4 stories and basement, tar and gravel roof, possibly elevator;

nurses' home; E. C. Wachendorf, Archt., McGlawn-Bowen Bldg., Atlanta.

Ga., Waynesboro—Burke County, Frank S. Burney, interested in erection of hospital.

Ky., Lexington—St. Joseph's Hospital, Sister Mary Abbott, Supt., rebuild structure noted damaged by fire at \$100,000 to \$150,000 loss.

La., New Orleans—Charity Hospital, Fredk. W. Matthews, Sec.-Treas., Bd. of Administrators, opens bids March 26 for boiler house building and April 2 for nurses' home and contagious disease building additions; former \$110,000, fireproof, conc.; latter \$180,000, fireproof, brick, 6 stories, connected by passageway to present structure; plans for boiler house ready about 10 days and for nurses' home in about 15 days; Favrot & Livaudais, Ltd., Archts., Hibernia Bank Bldg. 1-31

Miss., Aberdeen—C. C. Day, J. T. Evans and others, receive bids March 6 for fireproof hospital, Matubba and High Sts.; \$50,000, brick, 1 story, 80x168 ft., accommodate 30; X-ray room, 2 operating rooms, laboratory, maternity ward, etc.; R. A. Heavner, Archt., Jackson, Tenn. 12-27

Miss., Natchez—State Bldg. Comsn., State Capitol, Jackson, receives bids March 7 for alterations and repairs, Natchez Charity Hospital; \$25,000; bids on general work, elect. work, plumbing and heating; Shaw & Woleben, Archts., Gulfport. 6-7

N. C., Charlotte—Charlotte Sanatorium, 19 W. Seventh St., Dr. J. P. Munroe, erect \$25,000 addition; fireproof, 4 stories, steel and concrete.

N. C., Oteen—Additional firms estimating on bldgs. and utilities, including roads, walks and drainage and demolition of 4 frame bldgs., U. S. Veterans Hospital, bids Feb. 26 by U. S. Veterans Bureau, L. H. Tripp, Ch. Constr. Div., Arlington Bldg., Washington, D. C.; Vendor Slate Co., Easton, Pa.; Price-Evans Foundry Corp., Anderson Ave., Chattanooga, Tenn.; E. T. Burrows Co., Portland, Me.; Wm. Wilby, Selma, Ala.; Harrington Electric Co., Canton Bldg., Cleveland, O.; Young Electric Works, 1007 Broad St., Augusta, Ga.; Cashion-Green Electric Co., 1231 Taylor St., Columbia, S. C.; W. & J. Sloane, 575 Fifth Ave., New York; V. L. Nicholson Co., 613 S. Central St., Knoxville, Tenn.; Harmon Electric Co., 724 S. Cicero Ave., Chicago, Ill.; Central Glass Co., Bristol, Va.; Standard Engineering Co., 2129 I St. N. W.; Meatyard Construction Co., 927 15th St. N. W., both Washington; Frick Co., Waynesboro, Pa.; W. C. Spratt, Fredericksburg, Va.; Chas. W. Christian, 937 Providence Rd.; Harrison-Wright Co., 4 W. Third St., both Charlotte, N. C.; Bryce Plumbing & Heating Co., Florence, S. C.; D. C. Barnett, Box 533, Fort Smith, Ark.; J. S. Stearns, Monroe, N. C.; Loftis Plumbing & Heating Co., 440 Marietta St., Atlanta, Ga.; Ed Long Painting Co., 3111 Carnegie Ave., Cleveland, O.; Enterprise Steam & Hot Water Heating Co., 625 W. Franklin St., Baltimore; M. L. Gantt, Salisbury, N. C.; C. F. Pope Co., Inc., 20 E. Walnut St.; H. Rumford & Son, 771 Haywood Rd.; Marion B. Haynes, 72 Woodfin St.; John M. Geary Co., 35 N. French Broad St., all Asheville, N. C. 2-14

Okla., Enid—Enid Baptist Hospital expend \$150,000 to enlarge hospital.

Okla., Oklahoma City—Wesley Hospital erect \$75,000 nurses' home; brick, stone and rein. conc., 4 stories, 35x108 ft.; Hawk & Parr, Archts., Cotton Exch. Bldg.

Okla., Oklahoma City—Holmes Home of Redeeming Love started \$175,000 building campaign to include \$101,000 for 65-bed hospital. See Buildings Proposed—Miscellaneous.

Okla., Sand Springs—Mrs. Lillah D. Lindsey, Tulsa, is president of corporation to erect Tulsa Rural Sanitarium near Sand Springs; first unit \$50,000; Mrs. H. E. Rothrock, Tulsa, member, Advisory Board.

Okla., Shattuck—Shattuck Hospital, Dr. O. C. Newman, member, plans addition.

Tex., Dallas—City Comsn., Barney Davis, Commr. of Finance, ready for bids for 3-story addition to nurses' home, Parkland Hospital; \$200,000; 105 or 150 rooms; DeWitt & Washburn, Archts., Kirby Bldg. 1-17

Tex., Port Arthur—Sisters of Charity of Incarnate Word, Houston, receive bids Feb. 28 for St. Mary's Infirmary; \$500,000; brick, tile and rein. conc., 2, 3 and 4 stories, 125 beds, main bldg. 300x40 ft.; Maurice J. Sullivan, Archt., Second Natl. Bk. Bldg., San Antonio. 12-20

### Hotels and Apartments

Ark., Tuckerman—J. N. Hout interested in erection \$15,000, 2-story brick and stone hotel; comp. roof, wood and tile floors.

D. C., Washington—P. M. Julian, 917 Fifteenth St., reported, preparing plans for \$2,500,000, 8-story limestone hotel in northwest section.

D. C., Washington—M. Holzebelein, 1840 Seventh St., N. W., has permit for \$10,000, 2-story, brick flat, 1806 S. 6th St., N. W.

Fla., Miami Beach—Van Ness Bros. erect \$120,000, 3-story hotel, Ocean Drive and 6th St.; Wm. F. Brown, Archt., Bastian Bldg.

Fla., Palm Beach—East Coast Hotel Co. has plans by E. A. Ehmman, 210 Realty Bld. Bldg., for 8x250 ft., rein. conc. green house, 20x140 ft. pergola, and alterations and additions to tennis clubhouse, 80x92 ft., all at Royal Poinciana Hotel grounds.

Ky., Louisville—William Johnson, 2341 Magazine St., has permit for \$12,000, brick veneer apartment, 616 S. 22d St.

Ky., Louisville—Joseph Goldstein, 415 E. Lee St., has permit for \$50,000 English type, 23-room apartment, 3515 W. Kentucky St.; stucco garage in rear.

Md., Baltimore—Mrs. Mary A. Eberts convert 4-story, 20x100 ft., brick dwelling, 1007 N. Calvert St., into apartments.

Mo., St. Louis—David R. Harrison, Archt., 411 N. Seventh St., prepared plans for \$1,250,000, 15-story Park Royal Apartments, 4005 Lindell Blvd.; 56 suites, garage with 65-car capacity.

Mo., St. Louis—Ernest J. Hess, Archt., 903 Title Guarantee Bldg., soon let contract for \$75,000, 2-story and basement, 95x85-ft., brick, 16-apartment, Goodfellow St. and St. Louis Ave.; asphalt roof, terra cotta trim, hardwood floors, steam heat.

N. C., Charlotte—S. B. McLean, 707 E. Kingston Ave., has permit for \$12,000, brick veneer, 4-apartment, 703 E. Kingston Ave.

N. C., Hatteras—E. E. Burrus erect 25-room cottage type hotel on beach near Hatteras.

Okla., Enid—L. S. Youngblood, W. C. Bunyard and S. S. Orwig, Atty., all Wewoka, reported, erect 10-story hotel.

Okla., Frederick—Frederick Hotel Co. receives bids Feb. 25 for \$200,000, 5-story, 85x140 ft., rein. conc. hotel; built-up roof, conc. and tile floors; Harris H. Roberts, Archt., Harvey-Snyder Bldg., Wichita Falls, Tex. 2-14

Tenn., Knoxville—Mrs. Nina B. Sterchl has permit for \$10,000 apartment on Magnolia Ave.

Tenn., Memphis—Geo. W. Woolam, 734 Barrett St., having plans prepared by Claude Northern, Fidelity Bk. Bldg., for \$30,000, 2-story and basement, brick veneer 2-apartment, Tutwiler Ave.; comp. shingle roof, oak floors, tile baths, stone trim, steam heat, garages. 12-6

Tenn., Memphis—Horn Brothers, 38 S. Main St., erect \$25,000, 2-story and basement, brick veneer, 8-apartment, Jefferson Ave. and Claybrook St.; comp. built-up roof, stone trim, oak floors, tile bath, steam heat, garages.

Tenn., Memphis—J. C. Ford, 48 S. Front St., has low bid from Davis & Phillips, 1766 Harbert St., for \$50,000, 2-story and basement, brick veneer, 16-apartment, S. McLean St.; comp. and tile roof, oak floors, tile baths, stone trim, steam heat, garages; W. C. Lester, Archt., Derman Bldg. 1-10

Tex., Abilene—H. O. Wooten erect \$500,000 15-story, 140x75-ft. hotel and \$250,000, 4-story theater, N. Third and Cypress Sts.; hotel to be operated by A. H. Badger and associates; theater of Spanish mission type, to seat 1600 people, to be leased to Dent Theaters, Inc., 2009 1/4 Jackson St., Dallas; David S. Castle Co., Archt.

Tex., Austin—A. L. Haynes has plans by Roy L. Thomas, Littlefield Bldg., for 2-story apartment, 800 block W. 22 1/2 St.

Tex., Big Springs—A. J. Crawford ready for bids about March 7 for \$280,000, 12-story, brick, conc., Spanish type 100-room annex; Strange & Bradshaw, Archts., 617 Myrick Bldg., Lubbock. 1-3

Tex., Brownsville—Mrs. J. D. Junkin has permit for \$10,000, 2-story, 57x42 ft., frame and stucco, 7-apartment.

Tex., Fort Worth—Ben B. Milam, Archt., 302 First Natl. Bk. Bldg., preparing plans for two 2-story, 32x79-ft., brick veneer, stone trim apartments, Eighth Ave. and Cooper St.; oak floors, refrigeration, incinerator, Imperial Spanish tile roof; buildings connected by arches.

Tex., Houston—G. G. McCoy has permit for \$15,000 rooming house, 406 Hutchinson St.

Tex., Taylor—Howard Bland and Andrew Zilker, Austin, receive bids Feb. 26 (extended date) for remodeling interior and exterior 4-story Blazilmar Hotel; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 2-14

Va., Hopewell—C. K. Baylis, Archt., 206 Goodman Bldg., preparing plans for \$150,000, 4-story and roof garden apartment; tea patio, swimming pool, 4 tennis courts.

W. Va., Fairmont—Golden Brothers, 331 Adams St., improve Kenyon Hotel; install

elevator, repaint, provide electric sign; possibly erect additional story; to be operated by J. B. Burke, 456 High St., Morgantown.

### Miscellaneous

Ala., Anniston—W. T. Durrett, Archt., prepared plans for buildings at fair grounds in Oxanna.

D. C., Washington—Union League Club, 700 Investment Bldg., 15th and K Sts., erect \$800,000, 8-story stone clubhouse; 123x210 ft., 300 rooms, swimming pool, gymnasium, billiard and pool rooms, dining room, kitchen; E. A. Poynton, Archt., Investment Bldg. 2-14

Ga., Savannah—Froebel Circle of Kings' Daughters erect Cohen Shelter for Little Ones on Tybee Island; 1 story, 141x30 ft., brick; Citizens and Southern National Bank, Trustee, receives bids about Mar. 1; Levy & Clarke, Archts., Blun Bldg. 1-17

Ky., Nicholasville—Daniel Boone Lodge Co., Frankfort, plans resort hotel and cottages, golf course at Camp Nelson near Nicholasville.

Md., Hagerstown—Amusement Development Assn., Edw. Schoeppe, Pres., 1602 Spruce St., Philadelphia, plans \$200,000, 1 and 2 story rein. conc. recreation center; private plans.

Mo., St. Louis—Mid-West Life Insurance Co., A. C. MacIn, Pres., 2803 Pine St., reported, erect \$150,000, 6-story, brick community building, Leffingwell and Pine Sts.; F. J. Robertson, Archts., 3412 Humphrey St.

Mo., St. Louis—Wm. M. Schumacher, 1842 N. Jefferson Ave., soon let contract for \$100,000, 1-story and basement, 84x115-ft. brick undertaking parlor, Natural Bridge and Shreve Aves.; tile roof, elevator, hardwood floors, vapor heat; Wedemeyer & Nelson, Archts., Wainwright Bldg.

Mo., St. Louis—Moresi-Prange Co., 3119 N. Grand Blvd., soon let contract for 1 and 2 story, 171x68-ft. brick recreational building, Natural Bridge and Newstead Aves.; bowling alleys, stores, offices, comp. roof, terra cotta trim, terrazzo and wood floors; Wedemeyer & Nelson, Archts., Wainwright Bldg.

Okla., Oklahoma City—Holmes Home of Redeeming Love started \$175,000 building campaign to include \$101,000, 65-bed hospital and remodeling and repairing nurses' home and vocational training school to cost \$74,000.

S. C., Columbia—B. T. Pearson has permit for \$10,500 brick and stone funeral parlor, 1325 Park St.

Tex., Corpus Christi—H. N. Key, State Hotel Bldg., plans fireproof building, Staples and Agnes Sts.

Tex., Corpus Christi—J. L. Tribble & Son, Inc., Tribble Bldg., plans community market, Mesquite and Williams Sts.

Tex., Dallas—Glen Haven Country Club, W. P. Medders, Pres., expend \$50,000 for improvements; remodel clubhouse, enlarge ballroom and dining room, addition of check rooms, sun parlors, lighting fixtures, new lighting plant, improve golf course.

Tex., Mission—Kreidler Undertaking Co., McAllen, has low bid at \$14,250 from Meriwether & Sawers, Harlingen, for 1-story, 40x70 ft., hollow tile and stucco funeral home; Decker & Tanner, Archts. 12-13

Va., Ocean View—B. F. Mitchell and Rudolph, Cooke & Van Leeuwen, Archts., Arcade Bldg., Norfolk, preparing plans for \$50,000, 1-story, stucco, English type club house, on 200x265 ft. site, Norfolk Ave. and Sherwood place, for golf and country club being organized; organization, reported, planning \$500,000 hotel.

Va., Richmond—Virginia State Fair Assn., Charles A. Somma, Mgr. Dir., having plans prepared by Lee, Smith & Van Dervort, Sixth and Franklin Sts., and receives bids Mar. 15 for conc. grandstand.

### Schools

Ala., Mobile—Bd. of School Comms. considering \$800,000 bond issue; erect high school, enlarge and improve present structures; W. C. Griggs, Supt. of Education.

Ala., Montevallo—Alabama College, Dr. O. C. Carmichael, Pres., soon let contract for \$200,000 auditorium and administration building to be known as Thomas Waverly Palmer Hall; rein. conc., steel, brick, stone trim, conc. terrazzo and hardwood floors, comp. roof; Warren, Knight & Davis, Archts., Empire Bldg., Birmingham; authorized erection dairy plant and considering erecting dormitories. 12-14

Ala., Opelika—Bd. of Education, H. M. McCall, Chmn., has low bid from Daniel Lumber Co., LaGrange, Ga., for 1-story and basement, 245x54 ft., brick North Side School and 1-story and basement, 239x89 ft., brick South Side School; \$72,000, stone trim, comp.

and slate roofs; Lockwood & Poundstone, Archts., Edw. F. Billie, Asso. Archt., both Forsyth Bldg., Atlanta, Ga. 2-7

Ala., Tuscaloosa—Following contractors estimating on rein. conc. stadium at University of Alabama, bids March 9: C. G. Keeshaw Construction Co., Woodward Bldg., Birmingham; T. C. Thompson & Bros., 609 N. Smith St., Charlotte, N. C.; Volz Construction Co., Tucker & Laxton, Independence Bldg., both Memphis, Tenn.; A. H. Guion & Co., Inc., N. Broad St., Gastonia, N. C.; Miller-Hutchinson Co., Ocean Springs, Miss.; Atwood & Nash, Inc., Archts., Chapel Hill, N. C. 2-7

Ala., Tusculumbia—City plans vote on \$40,000 bonds for grammar school. Address Bd. of Education. 1-10

Ark., Sherrill—Jefferson County Bd. of Education, W. P. Keith, Supt., Pine Bluff, erect \$10,000, 1-story brick veneer school.

D. C., Washington—District Comms., Room 509 District Bldg., erect \$185,000, 2-story, brick school, 14th and Upshur Sts., N. W.; P. L. Dougherty, Engr. Dept., Room 427 Dist. Bldg.; A. L. Harris, Municipal Archt.

Ga., Atlanta—Sigma Alpha Epsilon Fraternity, Strother C. Fleming, Chmn., Fourth Natl. Bk. Bldg., erect 2-story and basement, brick veneer, stone trim fraternity house; fraternity row, Georgia School of Technology; comp. or slate roof, hardwood and tile floors, steam heat; Ivey & Crook, Archts., Candier Bldg.

Ga., Campton—Campton Consolidated School Dist. considering election on bonds for school; C. H. Grizzle, Supt., Walton County Bd. of Education, Monroe.

Ga., Cedartown—School Bd. plans enlarging school building.

Ga., Columbus—School Bd., Robt. B. Daniel, Supt., plans 1-story, brick, 5-classroom elementary school in St. Elmo section; auditorium-gymnasium addition to Industrial High School; remodel 2-story brick school, convert auditorium into classrooms; erect additions to present schools; city votes May 18 on \$250,000 bonds. 12-27

Ga., Cordele—Gillespie Institute, Prof. A. S. Clark, erect administration building and girls' dormitory; \$50,000, brick, comp. roof.

Ga., Dalton—Bd. of Education plans \$30,000 school.

Ga., Forsyth—Monroe County Comms. announce plans being formulated for bond election for high school.

La., Pioneer—West Carroll Parish School Bd., Oak Grove, selected J. W. Smith & Associates, Ouachita Natl. Bank Bldg., Monroe, to prepare plans for \$85,000, 2-story, brick and stone, 18-classroom, trim high school; plans vote on \$75,000 bonds.

Md., Coloma—West Nottingham Academy Bd. of Trustees erect \$50,000 building.

Md., Frederick—Maryland State School for Deaf, Prof. Ignatius Bjorlee, Supt., plans \$15,000 improvements to include new laundry equipment, sewerage system, alterations and repairs to main building, garage.

Miss., Brooklyn—Forrest County Bd. of Education, Hattiesburg, call for bids in about 30 days for \$50,000, 2-story, brick and stone trim agricultural high school; built-up comp. roof; N. W. Overstreet, Archt., Miss. Fire Bldg., Jackson.

Miss., Columbia—State Building Comsn., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, receives bids April 18 for \$65,000, brick school, 3 staff cottages, to cost \$12,000, repairing 10 buildings \$5000, and additions to laundry and power house \$6000, for Mississippi Industrial and Training School; plans from Vinson B. Smith, Jr., Archt., Bank of Gulfport, Gulfport.

Miss., Hattiesburg—State Building Comsn., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, receives bids April 4 for \$160,000 administration building, \$100,000 dining hall, \$125,000 auditorium, \$9,000 power house at State Teachers College; hollow tile, brick, stone trim, wood floors; bids March 7 for 5800 sq. ft. asphaltic conc. paving, to cost \$11,000, at College; plans from Vinson B. Smith, Jr., Archt., Bank of Gulfport, Gulfport. 12-13

Miss., Jackson—Bd. of Education selected Emmett J. Hull, Merchants Bank & Trust Co. Bldg., for 2 1-story brick schools; \$35,000 each. 1-10

Miss., Jackson—Bd. of Education, Ed. F. Bailey, Supt., receives bids March 11 for 1-story and basement, brick and stone trim, 10-classroom Lee School; built-up comp. roof; Claude H. Lindsley, Archt., Lamar Life Bldg. 1-10

Miss., Jackson—Bd. of Education, Ed. F. Bailey, Supt., receives bids March 11 for \$60,000, 2-story, 6-classroom, auditorium and cafeteria brick and stone trim addition to George School and alterations and additions

to Barr School, \$20,000; N. W. Overstreet, Archt., Miss. Fire Bldg. 1-31

Miss., Looxahoma—Tate County Bd. of Education, Senatobia, erect school building.

Miss., Pleasant Grove—Pleasant Grove Consolidated School Dist. votes March 4 on \$25,000 bonds for building to replace burned structure.

Miss., Wesson—Copiah-Lincoln Junior College selected Emmett J. Hull, Merchants Bank & Trust Co. Bldg., Jackson, for \$25,000 brick home science building.

Mo., St. Louis—Holy Rosary Catholic Church, Rev. D. J. Lavery, 3916 N. Newstead Ave., having sketches prepared by O'Meara & Hills, Arcade Bldg., for priest house and parochial school addition, Clarence and Margaretta Aves.

N. C., Chapel—City votes in March or April on \$15,000 school bonds. Address Bd. of Education.

N. C., Charlotte—City plans vote on \$1,500,000 school bonds for repairs and additions; H. P. Harding, Supt. of Schools. 11-1

N. C., Concord—Cabarrus County Bd. of Education, S. G. Hawfield, having plans prepared by M. R. Marsh, Builders Bldg., Charlotte, for \$48,000, 1-story, brick veneer, 12-room and auditorium high school in No. 3 Township; asbestos shingle roof. 2-14

N. C., Winston-Salem—Bd. of Education has low bid at \$86,285 from J. R. Owen & Son, Greensboro, for Ardmore Elementary School and at \$42,334 from J. L. Crouse, American Bk. Bldg., Greensboro, for 12-classroom addition to Forrest Park School; J. L. Crews, Archt., R. E. Lee Hotel. 2-14

Okla., Carter—Carter Consolidated School Dist. voted \$27,000 bonds. Address Dist. School Trustees.

Okla., Ponca City—Bd. of Education, L. K. Meek, Clk., ready for bids about March 1 for McKinley and North Side Schools; \$200,000 bonds voted; Smith & Senter, Archts., Philtower Bldg., Tulsa. 1-3

S. C., Gaffney—Limestone College, Dr. R. C. Granberry, Pres., adopted \$373,000 building program for next four years to include: Library, \$25,000; development campus, \$5,000; two dormitories, \$85,000; change in front administration building, \$6,500; residence hall for teachers, \$30,000; renovation and equipment old gymnasium for dining hall, \$3,000; equipment for two new dormitories, \$5,000; renovation rooms in East and West Cooper dormitories and furniture, \$10,000; terrazzo or linoleumize floors of administration building, arcade, Central hall and dining room, \$3,000; endowment fund, \$200,000.

Tenn., Columbia—City, Harry W. Frierson, Mayor, and Maury County plan voting soon on \$100,000 bonds each for proposed State Junior College measure now pending before legislature.

Tenn., Knoxville—Bd. of Education plans 6-room school in Sequoyah Hills; Barber & McMurray, Archts., General Bldg.

Tenn., Newbern—Town postponed vote on \$50,000 school bonds. 2-14

Tenn., Tigrett—Dyer County Bd. of Education, Miss N. Doran Bowen, Supt., Dyersburg, erect 2-story frame school to replace structure destroyed by fire.

Tex., Austin—School Bd. plans \$300,000 school improvement program to include Austin high school gymnasium, \$35,000; conversion Wesley chapel into junior high school gymnasium, construction \$55,000 junior high school for negroes and improvements and additions to number ward schools.

Tex., Fort Worth—Texas Woman's College, Dr. H. E. Stout, Pres., plans building.

Tex., Portland—Portland School Dist. votes Feb. 23 (extended date) on \$15,000 bonds for stucco and tile, 4-room school; E. E. Hamon & Co., Archts., City Natl. Bank Bldg., Corpus Christi. 2-7

Tex., Waco—Baylor University, Dr. S. P. Brooks, Pres., ready for bids about Mar. 15 for \$350,000 auditorium and chapel; seat 3000 people.

Tex., Waxahachie—City considering vote on \$160,000 school bonds for fireproof school and repairs and additions to other buildings. Address School Bd.

Tex., Yorktown—Yorktown Ind. School Dist. plans vote on \$60,000 bonds for 16-room high school and improvements to present building. Address Dist. School Trustees.

Va., Fredericksburg—School Bd. erect \$100,000 auditorium and gymnasium addition to high school.

Va., Lawrenceville—St. Paul's Normal and Industrial School for Negroes has gift of \$50,000 for home economics building; proposed home will wait completion \$100,000 girls' dormitory under construction, also ad-



ministration building, gift of Rev. John G. Scott, Richmond.

W. Va., Charleston—Bd. of Education, S. E. Weber, Supt., soon ready for bids for \$160,000 high school; G. E. Holmboe, Archt., Empire Bldg., Clarksburg.

### Stores

Ala., Huntsville—Sears, Roebuck & Co., Chicago, leased 2-story Mason Bldg. and remodel for department store.

Ark., Leachville—C. L. Smith Co. erect 1-story, 50x140-ft. brick store; comp. roof, wood floors.

Ark., Rogers—R. H. Whitlow and M. V. Deason erect community center building, Fourth and Walnut Sts., to include grocery store, meat market, cafe.

Fla., Tampa—B. C. Bonfoey, Archt., 305 Morgan St., preparing plans for remodeling store; \$35,000.

Ga., Atlanta—I. N. Hirsch, 144 Marietta St., S. W., ready for bids about March 1 for remodeling 4-story and basement, brick and conc. building on Central Ave., S. W.; R. S. Monday, Archt., Norris Bldg. 1-3

La., New Orleans—Weiss, Dreyfous & Seifert, Archts., Maison Blanche Bldg., prepared plans for additions and alterations to 3-story brick commercial building, 325 Royal St.; Gervais F. Favrot, Balter Bldg., low bid at \$21,104.

Md., Baltimore—Besche Bros., 1041 Light St., expend \$20,000 for remodeling 4-story, brick store; ready for bids; also erect \$20,000, 1 story, brick garage in rear 1043 Light St.; J. C. Spedden, Archt., Linticum Bldg.

Md., Baltimore — Baltimore-Washington Realty Co., W. K. Bachrach, Pres., 16 E. Lexington St., ready for bids about Feb. 25 for \$25,000, 1-story, brick, 4-store, 3138 Greenmount Ave.; L. R. White, Archt., Hearst Tower Bldg.

Miss., Hattiesburg—J. C. Penney Co., Inc., 330 W. 34th St., remodel Eisman and Botnick building; \$15,000.

Miss., Jackson—W. J. McGee & Son have contract for 1-story brick store on W. Capitol St.; Claude H. Lindsley, Archt., Lamar Life Bldg.

Miss., Jackson—H. B. Jenkins, 826 North St., let contract at \$123,300 to J. D. Varley for 2-story brick store; N. W. Overstreet, Archt., Miss. Fire Ins. Bldg.

Miss., Waynesboro—J. S. Williams erect 2-story brick building; lower floor to be occupied by Slaughter's Drug Store.

N. C., Lexington—Rustin-Johnson Furniture Co., Gastonia, remodel building in Hinkle block for retail store.

N. C., Winston-Salem—Morris-Early & Co., Inc., J. H. Early, V-P., 609 N. Liberty St., soon start work on 3-story, 45x100-ft., conc. and brick, limestone trim, fireproof building, Fourth and Poplar Sts.; Northup & O'Brien, Archts., Starbuck Bldg.

Okl., Ada—Model Clothiers, Broadway and Main St., expend \$10,000 for remodeling store, erecting new front.

S. C., Greenville—Martin & Hawkins Furniture Co., 101 N. Laurens St., has permit for remodeling Vickers-Cauble Bldg., Main and E. Coffee Sts.; \$12,000.

S. C., Spartanburg—Silver Brothers have permit for remodeling building on E. Main St.; \$30,000.

Tenn., Elizabethton — E. C. Selby, Gary, Ind., erect \$50,000 to \$75,000, 4-story department store on Elk Ave.

Tenn., Murfreesboro—Miss Carmine Collier plans 2-story brick commercial building to replace burned structure; \$40,000, comp. roof.

Tex., Hillsboro—Colonial Trust Co. remodel and erect 50-ft. rear addition to building to be leased to Montgomery Ward & Co., Chicago.

Tex., Houston—Paris Brothers, Inc., New Orleans, leased store at 803 Main St., and remodel.

Tex., La Porte—P. Nicholatti, Beaumont, erect store and apartment.

Tex., Plainview—Jarvis-Tull Implement Co. has permit for \$40,000 brick business building.

Tex., Plainview—Abbott & Woodall have permit for brick business building.

Tex., San Antonio—Maverick Estate has low bid at \$11,544 from C. H. Blount, 1427 Nogalitos St., for 1-story, 63x70-ft., brick, tile and rein. conc. addition to store, N. Presa and College Sts.; Will N. Noonan Co., Archt., Builders Exchange Bldg. See Want Section—Building Material and Equipment.

Tex., San Antonio—Dr. J. H. Bigger, 3303 S. Presa St., has low bid at \$8,100 from E. F. Kusener, 735 Rigsby St., for 1-story, 40x77 ft., brick and stucco store, S. Presa and Mitchell Sts.; Clarence Saunders, Inc., Lessee; Adams & Adams, Archts., Real Estate Bldg. 2-14

Tex., Sweetwater—Sam Glass remodel lower floor and basement of Sunbeam Grocery Co. Bldg., to be leased to J. C. Penney & Co., Inc., 330 W. 34th St., New York; \$10,000.

Va., Alexandria—Work will soon start on \$100,000 department store at 906 King St. for Montgomery Ward & Co., Chicago.

Va., Richmond — Sears, Roebuck & Co., Chicago, soon ready for bids for \$50,000 retail store; Chas. M. Robinson, Archt., Times-Dispatch Bldg.

### Theaters

Fla., Tampa — F. J. Kennard & Son, Archts., 303 Zack St., prepared plans for \$300,000 theater; seating capacity 1400.

Tex., Abilene—H. O. Wooten erect \$250,000 theater. See Buildings Proposed—Hotels and Apartments.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

W. Va., Bluefield—Independent Order of Odd Fellows erect \$40,000 bldg., McDowell St.; brick and steel; theater to seat 550, operated by John W. Luther; Greene & Stove, Contrs.

### Bank and Office

Ala., Birmingham — Reeves Bros. Iron Works let contract to J. F. Culpepper & Sons, 2515 Avenue D, Ensley, for \$30,000 office building; brick and rein. conc., 1 story and basement, 40x80 ft., cement and linoleum floors, built-up roof; Warren, Knight & Davis, Archts., Empire Bldg. 1-17

Ala., Birmingham — John T. Jones and Jesse H. Jones, 1012 Main St., both Houston, Tex., are financing erection of \$1,500,000 Medical Arts Bldg., 20th St. and Seventh Ave.; 16 to 20 stories; Harry B. Wheelock, Archt., Steiner Bldg., Birmingham; A. J. Krebs Co., Contr., Walton Bldg., Atlanta, Ga. 10-18

Ga., Atlanta—Walter T. Candler, 20 Houston St., let contract to Carr Construction Co. for \$200,000 addition to Walton Bldg., Cone and Walton Sts.; brick and steel, 9 stories, 40x90 ft.; Ivey & Crook, Archts., both Candler Bldg.; engineering by Contr.; work start March 1. 2-7

Md., Rockville — Farmers Banking and Trust Co. let contract to Tilghman Moyer Co., Allentown, Pa., for \$110,000 bank building; plans by Contr. 5-23

Miss., Jackson—Plaza Realty Co., J. B. Stirling, Pres., 600 N. State St., let rein. conc. foundation and steel work contract for \$600,000, 12-story office building to I. C. Garber, Medical Bldg., and M. A. Lewis, 901 N. Jefferson St., at \$21,151; plans for superstructure ready for bids about 10 days; N. W. Overstreet, Archt., Miss. Fire Bldg. 2-7

Mo., St. Louis—Continental Life Insurance Co., 1000 Olive St., let contract for 2100 tons struct. steel shapes for \$1,500,000 office building, Olive St. near Grand Blvd., to Mississippi Valley Structural Steel Co., 3117 Big Bend road; structure 20 stories, 250 ft. high, set backs at 15th and 20th stories, white terra cotta face; Wm. B. Ittner, Inc., Archt., Bd. of Education Bldg. 11-15

S. C., Anderson—Anderson Building Corp. being organized to erect 10-story office bldg., Main and Whitner Sts.; \$500,000 to \$600,000; fireproof, Acquia sandstone for first 2 floors, brick with stone trim above, steel frame, rein. conc. floors, 2 high-speed elevators; beauty parlor, barber shop and probably bowling alleys in basement, 9 stores on first floor, 138 offices above with 10 bachelor apartments on top floor and probably restaurant, etc., on roof; plans by A. W. Brown, of Meigs, Long & Beale, Engrs., 1001 Chestnut St., Philadelphia, Pa.; contract let.

Tenn., Knoxville—Eugene Fretz let contract to H. E. Rogers, 900 Jacksboro St., for additional story to 4-story Deaderick Bldg., Market St.; flat comp. roof; 18 additional offices; Ryno & Brackney, Archts., Brownlow Bldg. 11-22

Tex., Dallas—Kinnison Bros., 1201 S. Lamar St., has heating contract for \$350,000 addition to American Exchange National Bank; plumbing, Hamilton Co., 2301 Griffin St.; wiring, W. K. Grace Engineering Co.,

Tex., Henderson—H. L. Griffin receives bids Feb. 26 for \$75,000, brick, steel and conc. theater; separate bids on ventilation, electric work, sprinkler system, lighting fixtures, seating, display frame and electric signs; seating capacity 1500, comp. roof, gas steam heat; Emile Weil, Inc., Archts., Whitney Bank Bldg., New Orleans, La.; following contractors estimating: C. W. Marshall, Jacksonville, Tex.; Berry Construction Co., Lufkin; Jos. Pressler, Marshall; Ross Maddox and Gaston & Anderson, Henderson. 1-17

Va., Charlottesville — Lafayette-Jefferson Theaters, Inc., F. W. Twyman, Pres., having plans prepared by C. K. Howell, Robert Fulton Hotel, Atlanta, Ga., for \$160,000, rein. conc. and struc. steel building on W. Main St. for theater and stores.

### Warehouses

Ark., Siloam Springs—Ozark Grocery Co. erect warehouse on Jefferson St.

Tenn., Pleasant Shade—Prof. L. B. Thomas, Chmn. Comm., promoting erection tobacco warehouse.

Tex., Dallas—C. D. and F. D. Thomas, 3112 Holmes St., have permit for \$35,000, 2-story, brick and steel warehouse, 526-36 N. Pearl St.

Kirby Bldg.; Lang & Witchell, Archts., Amer. Exch. Bk. Bldg.; L. E. Myers & Co., Contrs., Allen Bldg. 10-11

Tex., Gonzales—Central Power and Light Co., Frost Bldg., San Antonio, let contract at \$10,737 to Sumner Sollitt Co., Natl. Bank of Commerce Bldg., San Antonio, for brick and rein. conc. office building; 1 story, about 30x58 ft.; John M. Marriott, Archt., Frost Bldg.; Roy W. Leible, Asso. Archt., both San Antonio. 1-24

Tex., Johnson City—Johnson City State Bank remodel 2-story and basement building for bank and hotel; Roy L. Thomas, Archt., Littlefield Bldg., Austin; Geo. L. Kennedy, Contr., San Marcos.

Tex., San Antonio—Alamo Iron Works, 130 Santa Clara St., has contract at \$2290 for rein. steel for foundations and basement walls of \$2,000,000 bank and office bldg. for Alamo National Bank; Graham, Anderson, Probst & White, Archts., 80 E. Jackson Blvd., Chicago, Ill.; McKenzie Construction Co., Contr., Travis Bldg. 1-10

### Churches

Mo., Columbia—First Christian Church, J. M. Taylor, Chmn., Bldg. Comm., let contract for remodeling church and erecting Sunday school to W. R. Odor & Son, Canton, Mo.; stone, 3 stories and basement, 128x54 ft.; E. G. Groves, Archt., 1982 Broadway, Denver, Colo. 1-31

Tex., Taft—First Baptist Church let contract to J. M. Moore, Brownwood, for \$35,000 bldg., Greene Ave. and Park St.; face brick, 3 stories. 11-8

Va., Richmond—First Church of Christ, Scientist, let contract at \$66,500 to Muhleman & Kayhoe, 505 E. Franklin St., for building, Monument Ave. and Allison St.; Classic design, Indiana limestone, 66x105 ft.; accommodate 800; Marcellus E. Wright, Archt., Amer. Natl. Bank Bldg.; excavation completed. 2-7

### City and County

La., New Orleans—City Comsn. Council let joint contract at \$1,565,000 to Caldwell Bros., 816 Howard Ave., and H. W. Bond & Bro., 1025 Copernicus St., for municipal auditorium, Beaugard Square; sprinkler system, Grinnell Co., Inc., N. O. Bank Bldg., at \$22,549; auditorium proper seat 6500, 210x320 ft., with annex 70x320 ft., to seat 3500; stage may be lowered to provide for 2000 additional seats between auditorium and annex; convention hall, theater, exhibition space, auxiliary emeting room and dressing rooms; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg.; Sam Stone, Jr., & Co., Const. Archts., Masonic Temple Bldg. 2-7

N. C., Charlotte—Tompkins-Johnston Co., 4 N. Brevard St., has plumbing and heating contract at \$6840 for \$200,000 armory; M. R. Marsh, Archt., Builders Bldg.; Goode Construction Co., Contr., 11 E. Fifth St. 2-8

Tex., Devine—City Comm. erect fire station; hollow tile, 30x140 ft.; C. M. Bennett, Contr.

Va., Newport News — Library Bd. Bldg. Comm., Walter B. Livezey, Chmn., let contract to Virginia Engineering Co., 322 28th St., for library; Chas. M. Robinson, Archt., Times-Dispatch Bldg., Richmond. 1-31

## Dwellings

Ala., Birmingham—White & McEwen, care Jacob E. Salle, Archt., Empire Bldg., erecting brick veneer residence, Hollywood; 1 story, comp. roof, hot air heat; day labor.

Ala., Birmingham—W. Carson Adams, 1027 S. 30th St., erect brick and hollow tile residence, 44th St. and Clairmont Ave.; 2 stories, 50x33 ft., slate roof, vapor heat; Woolard & Lynch, Contrs., 2115 N. First Ave.

Ala., Talladega—Bemis Bros. Bag Co., 901 S. Fourth St., St. Louis, Mo., let contract to H. R. Hamill Co., R. & P. Bldg., Huntington, W. Va., for 140 employees' dwellings, Bemiston; \$450,000; frame, cypress weatherboard, cement porch floors, asbestos shingle roofs, plastered interiors; plans by J. E. Sirmine & Co., Engrs., Greenville, S. C. 12-20

D. C., Washington—Jas. C. Wilkes, 3806 Garfield St., completed footings for \$28,000 residence, 1736 Holly St.; brick and stone, 2 stories, slate roof; Wm. Harris, Archt., 17th and Rhode Island Ave.; Jas. E. Fox, Contr., 1615 Buchanan St. See Want Section—Building Material and Equipment. 2-14

Fla., Miami—Edw. Fisher erect \$15,000 residence, Beach View; stucco and conc. block, 2 stories, 50x37 ft.; Webb & Meyers, Contrs., 1234 Capri Ct., Coral Gables.

Fla., Miami—Bertha Wolowsky let contract for \$15,000 residence, 501 N. E. 25th St., to St. John Construction Co., 629 N. W. Seventh St.; E. L. Robertson, Archt., Calumet Bldg.; work started.

Fla., Miami Beach—Dr. W. V. Hartmann, 5641 Pine Tree Drive, erect \$40,000 residence; Chauncey R. Clark, Contr.

Fla., Miami Beach—Tropical Homes, Inc., erect \$25,000 dwelling, 6065 Pine Tree Drive; 2 stories, 44x76 ft.; owner builds.

Ga., Atlanta—R. S. Speer, 45 Fourth St., N. E., erect \$18,000 residence, 26th St.; brick, hardwood and tile floors, tile or comp. roof, steam heat; G. C. Tully, Contr., 510 Ashby St., S. W.

Ga., Atlanta—W. E. Mitchell, care Georgia Power Co., let contract to Empire Construction Co., Elect. and Gas Bldg., for \$50,000 residence, Andrews Drive; brick and stone, 2 stories and basement, hardwood floors, tile baths, slate or tile roof, steam heat; Sigmund Nesselroth, Archt., Birmingham, Ala. 12-13

Ga., Atlanta—J. F. Baxter, 619 Linwood Ave., N. E., has low bid from P. D. Christian, Mort. Guar. Bldg., for \$20,000 residence; Jas. T. Mitchell, Archt., 140 Peachtree St., N. E. 1-31

Ga., Atlanta—Edgar Chambers, 235 Prado St., N. E., erect \$25,000 residence, N. Decatur Rd.; brick, 2 stories and basement, hardwood and tile floors, tile roof, steam heat; G. R. Bond, Contr., Fourth Natl. Bk. Bldg.

Ga., Barnesville—Wm. Carter Co. erect 15 cottages; frame and brick, comp. roof; Barnesville Planning Co., Contr.

La., New Orleans—B. C. Johnson, 1931 Painters St., erect single residence, Sage St. near Franklin Ave.; owner builds.

La., New Orleans—Herbert J. Betzer, 730 N. Claiborne St., erect double dwelling, Baccich St. near Carnot St.; owner builds.

La., New Orleans—Geo. J. Lupo, Contr., 4925 S. Soutt St., erect double dwelling, Almonaster Ave. and Galvez St.; receiving sub-bids; work start March 1.

La., New Orleans—O'Neil Labeaud, Contr., 3525 St. Anthony St., erect 5 double dwellings, Pauline and Roman Sts.

Md., Baltimore—E. J. Gallagher Realty Co., Munsey Bldg., erect 38 dwellings, 3600 block Elkader Rd., 15 in 900 block McKewin Ave. and 26 in 900 block 37th St., Ednor Gardens; Harford Rd. section; 2 stories, 6 rooms; \$450,000; owner builds.

Md., Baltimore—Suburban Construction Co., York Rd., erect 10 brick dwellings, 500 block Winston Ave.; 2 stories; \$21,000.

Md., Baltimore—Milton R. Lerch, Harford Road and Northway, erect 7 frame dwellings, Northern Pkwy., Ellamont Road, and Northway; 2½ stories, slate roofs, hot water heat; Fred Gowings, Archt.; owner builds.

Md., Frederick—Dr. R. M. Rau started work on stone residence, Rockwell Terrace.

Mo., St. Louis—H. L. Bowman, 4513 Gibson St., completed footings for \$12,000 residence, 4640 Anderson Ave.; stone and brick, 2 stories, 26.2x44.2 ft., hardwood floors, comp. roof; Chas. F. Bethge, Archt.; Bethge-Boswell Construction Co., Contr., both 4318 N. Newstead Ave.

N. C., Winston-Salem—Wachovia Building Co., Nissen Bldg., erect 2 dwellings, Oaklawn Ave. near Greenbrier St.; 2 stories, 8 rooms; \$28,500; owner builds.

N. C., Winston-Salem—Jas. G. Hanes, Glade St., let contract to McNeill Construc-

tion Co., 15th and Race Sts., Philadelphia, Pa., for fireproof residence bet. Reynolda and Brookstown Rds.; 15 or 16 rooms, stone and brick, tile roof, garage and servants' quarters; Peabody, Wilson & Brown, Archts., 140 E. 39th St., New York; Harold Macklin, Asso. Archt., Realty Bldg., Winston-Salem; Wiley & Wilson, Mech. Engrs., Peoples Natl. Bk. Bldg., Lynchburg, Va.

Okla., Oklahoma City—Alton Jennings Co., Perrine Bldg., started work on 6 brick dwellings, Edgemere Park addition.

Tex., Beeville—Mrs. R. B. Taylor erect duplex, N. Washington St.; 1 story, 5 rooms each; Mr. Cox, Contr., Skidmore.

Tex., El Paso—C. A. Puckett, Dean, Texas College of Mines, erecting 6-room Spanish type residence, 1200 block Robinson Blvd.; H. T. Ponsford & Sons, Contrs., 914 E. Missouri St.

Tex., Houston—Hugh Wilkin, Contr., 707 Taft St., and associates started work on 2 duplexes and 4 single dwellings, Temple Drive, W. Walker and W. Lamar Sts., Temple Terrace; brick veneer, 2 stories; \$60,000.

Tex., Houston—Following erect residences, Meadowbrook: A. W. Estes, Kress Bldg., 5-room, brick veneer, 8350 Barkley St.; Mrs. Bessie Pengelly, 7-room brick veneer, 4336 N. Bayou; Ed Snyder, 8326 Barkley; Frank Jones, 5-room brick veneer, 8325 Baker St.; H. Stevens, 6-room brick veneer, 8311 Bonner St.

Tex., Houston—C. H. Stancliff, Kress Bldg.; let contract to A. E. Scott, 1926 Bolsover St., for \$20,000 English type brick veneer residence, Live Oak and Binz Sts.; 2 stories, 12 rooms; J. M. Glover, Archt., Bankers Mortgage Bldg. 1-31

Tex., Houston—John W. Beall Realty Co., 848 W. 19th St., started work on 4 dwellings, Eureka Acres on 18th Ave. Extension.

Tex., San Antonio—G. B. Prentiss, 618 Mason St., let contract for English type residence, Pershing Ave., to C. C. Dishman, 305 Mary St.; rock constr., 1 story; Albaugh & Steinbomer, Archts., Real Est. Bldg. 1-31

Tex., Smithville—G. W. Skinner erect residence, Riverside Addition; Fite & Ingram, Contrs.

Va., Hopewell—Karlstromer Construction Co., 302 Broadway, erect 4 dwellings; 2 stories; C. K. Baylis, Archt., 206 Goodman Bldg.

Va., Waynesboro—Waynesboro Construction Corp., J. Frank Harper, Pres., erect 12 dwellings; W. H. Smith, Contr., Clifton Forge.

## Government and State

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvy. Archt., erect \$10,000,000 bldg. for Bureau of Internal Revenue; structure designed in Supvy. Archt.'s office, in collaboration with Bd. of Architectural Consultants, which includes Edw. H. Bennett, Chmn., 80 E. Jackson Blvd., Chicago, Ill.; Louis Ayres, 100 E. 42nd St., New York; Wm. Adams Delano, 126 E. 38th St., New York; Milton B. Medary, Otis Bldg., Philadelphia, Pa.; Arthur Brown, Jr., 351 Kearney St., San Francisco, Calif.; and Louis A. Simon, Supvy. Archt.'s office, Washington; fireproof, stone facing, limestone or marble columns, 7 stories and basement, 450x400 ft.; James Baird Co., Contr., 1800 E St., N. W., Washington; 8300 tons struct. steel shapes to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa.; low bid at \$11,215 from Washington Ornamental Co., Washington, for models; architects lately incorrectly reported.

Ga., Fort Benning—Following contracts let for \$310,500 Barracks No. 2, Fort Benning: Sub-contract for majority of conc., brick and tile work, Mangham Construction Co., Macon, Ga.; excavation, M. H. Gardinir, Third Natl. Bank Bldg.; face brick, Dixie Brick Co., 1019 Broad St.; common brick, Columbus Brick and Tile Co., Fifth St., and Bickelstaff Brick Co., 1145 First Ave.; elect. work, Georgia Electric and Construction Co., 1722 Hamilton Ave., all Columbus, Ga.; Portland cement, Pennsylvania-Dixie Cement Corp.; misc. iron, Price-Evans Foundry Corp., Anderson Ave., both Chattanooga, Tenn.; rein. steel, Connors Steel Co., Empire Bldg., Birmingham, Ala.; rein. steel specialties, Atlanta, Ga., branch of Kalman Steel Co., Wrigley Bldg., Chicago; cut stone, E. H. France Stone Co., 1015 Fifth St.; painting, R. A. Henry, both Macon, Ga.; slate partitions, Structural Slate Co., Pen. Argyll, Pa.; millwork, A. S. Bacon & Sons, Schwarz Ave., Savannah, Ga.; steel sash, Atlanta branch, Truscon Steel Co., Youngstown, O.; plumbing, heating and sewers, C. H. Ellis Co., Campbellsville, Ky.; James C. Miller Co., Gen. Contr., Campbellsville. 2-7

## Hospitals, Sanitariums, Etc.

D. C., Washington—Dept. of Interior, E. C. Finney, First Asst. Sec., let contract at \$149,700 to Bahen & Wright, 1223 New York Ave., N. W., for nurses' home, boiler house, employ's quarters and dining hall, Freedman's Hospital; fireproof, 3 stories, 46x148 ft., conc., terrazzo and mastic floors, tin roof, plain foundation; Jas. Berrell, Archt.-Engr., Colorado Bldg. 2-14

Okla., Oklahoma City—J. D. Mann Plumbing Co., 214 N. Harvey St., has heating and plumbing contract for \$150,000 hospital for Dr. Marvin E. Stout, Med. Arts Bldg.; wiring, Oklahoma Electric Supply Co., 200 W. First St.; brick, Acme Brick Co., Braniff Bldg.; painting, N. A. Haladay; stone, Harter-Marblecrete Stone Co., 1608 W. Main St.; steel, J. B. Klein Iron & Foundry Co., 1006 W. Second St.; millwork, G. A. Nichols Lumber Co., 115 N. Harvey St.; A. L. Christenberry, Archt., 1811 E. Twenty-fifth St.; Jack Gill, Contr. 1-17

Tenn., Knoxville—Sisters of St. Mary, 414 W. Vine St., let contract for \$250,000 first unit of 300-bed hospital to A. H. Whisman, 422 Front St.; rein. conc., brick, stone trim, 3 stories, 191x38 ft. and 86x42 ft., marble floors, conc. foundation, Barrett Specification roof, 75 beds; Crowe & Schulte, Archts., Reading Rd., Cincinnati, O. See Want Section—Building Material and Equipment. 2-14

## Hotels and Apartments

D. C., Washington—David L. Stern, Archt.-Bldr., 1412 I St., N. W., has permit for \$300,000, 8-story, brick and conc. apartment, 933 L St., N. W.

Fla., Jacksonville—Gardner W. Beckett Organization, Inc., Barnett Bldg., started work on first unit of four 3-story brick, Colonial type apartments on Ernest St. between Stockton and Acosta Sts.; \$100,000; W. T. Hadlow, Contr.; Mellon G. Greeley, Archt., both 32 W. Forsyth St.; Prudential Insurance Co. of America, Newark, N. J., financing.

Ga., Atlanta—Fitzhugh Knox & Sons, 809 Norris Bldg., soon start work on \$150,000, 3-story, 35½x146-ft. brick veneer apartment, 2260 Peachtree road; stone foundation, oak floors, tar and gravel roof; R. S. Monday, Archt., 1009 Norris Bldg.; owner builds. See Want Section—Building Material and Equipment. 2-14

La., New Orleans—W. W. Desemar, 2714 Holly Grove St., has contract for 4-apartment in Fountainbleau drive; rein. steel, brick.

La., New Orleans—Mrs. J. O'Hara erect 2-story, 8-apartment, Second and Rampart Sts.; slate roof; D. J. Schwartz, Contr., 5818 Catina St.

Miss., Hattiesburg—Following additional sub-contracts awarded on \$500,000, 9-story hotel for Forest Hotel Co., O. M. Gwin Construction Co., Gen. Contr., Union Indemnity Bldg., New Orleans: Hollow tile, Vulcan tile & Brick Co., Inc., 1638 Poydras St., New Orleans; stone base cornice, Carthage Marble Corp., Carthage, Mo.; terra cotta, North-western Terra Cotta Co., 4417 Oleatha St.; glazing, E. W. Ulrich Glass Co., 827 Dryades St., New Orleans; millwork, McPhillips Manufacturing Co., Lawrence St., Mobile, Ala.; plastering, Monahan Plastering Co., Canal Bk. Bldg., New Orleans; Geo. D. Barnett, Inc., Archt., Syndicate Trust Bldg., St. Louis; E. C. Hearson & Sons, Asso. Archts., 201 W. Pine St., Hattiesburg.

Mo., Kansas City—W. D. Snyder, Bldr., 817 Commerce Bldg., erect two 11-story apartment hotels, Linwood Blvd. and Harrison Sts.

Mo., St. Louis—A. W. Krone erect \$10,000, 2-story, 29x47-ft. brick tenement, 4266-68 Labadie St.; tar and gravel roof, hot air heat; J. H. Pueser, Archt.-Bldr., 7394 Bedford St., University City.

Mo., St. Louis—W. Wehmüller, 4415 Athlone St., has permit for \$10,000, 2-story, 24x55-ft. brick tenement, 4417 Athlone St.; tar and gravel roof, hot water heat; Ruble & Behle, Contrs., 4275 Red Bud St.; G. Becker, Archt., Ferguson.

Mo., St. Louis—Park Realty Co., care McKelvey-Carter Co., 3800 W. Pine Blvd., erect \$100,000, 3-story and basement, 60x114-ft., brick, rein. conc., fireproof, 24-apartment, Park Ave. and 39th St.; built-up roof, terra cotta trim, hardwood floors, in-a-door beds, tile baths, steam heat; Manske & Bartling, Archts., 4526 Olive St.

Mo., St. Louis—J. H. Pueser, 7394 Bedford St., erect \$10,000, 2-story, 30x47-ft. brick tenement, 2300-02 Angelica St.; tar and gravel roof, hot air heat; owner, Archt.-Bldr., 7304 Bedford St., University City.



Mo., St. Louis—H. Smith, 3329 Meramec St., erect \$10,000, 2-story, 34x48 ft., brick tenement, 4311-15 Minnesota St.; comp. roof; Kloster & Co., Bldrs., 3311 Meramec St.

Mo., St. Louis—W. C. Ghio, 3540 Olive St., erect \$48,000, 3-story, 60x119 ft., brick tenement, 5811-15 Delmar Blvd.; comp. roof, hot water heat; C. Spooneman, Contr., 4142 Farlin St.; A. B. M. Corrubia, Archt., 1373 Arcade Bldg.

Okla., Oklahoma City—Howard A. Campbell started work on \$25,000, 8-family, brick apartment, 24th St. and Walker Ave.

Okla., Tulsa—Freeman-Springer Construction Co. start work about March 1 on \$48,000, 3-story, 32x90 ft., brick, 18-apartment, 13th Place and Elgin Ave., and \$37,000, 2-story, 12-apartment, 1619 S. Utica St.

N. C., Winston-Salem—C. P. Benbow, 902 Linwood Ave., soon start work on third unit Gray Court Apartment, Fifth and Broad Sts.; \$70,000, 4 stories, Indiana limestone and brick, tile and linoleum floors; owner, Archt.-Contr.

Tenn., Chattanooga—G. B. Glenn plans \$100,000 to \$125,000 hotel to replace structure destroyed by fire; Chambers & Son, probable Contrs. 1-3

Tenn., Nashville—Pritchett-Thomas Co., Stahlman Bldg., let contract to Angle-Blackford Co., American Exchange Bk. Bldg., Greensboro, N. C., for \$1,000,000, 15-story, 90x175-ft., rein. conc., brick, stone trim, fireproof apartment hotel on Seventh Ave.; 6-room bungalow on roof, terrazzo, tile and conc. floors, marble interior trim, 3 elevators; Marr & Holman, Archts., Stahlman Bldg. 2-14

Tex., Dallas—Cox Building Company soon start work on 4-story, brick, 66-room hotel, Bryan and Pavillion Sts.; 40-car garage at rear; Cowdin Brothers, Contrs.; F. J. Woerner & Co., Archt., Central Bank Bldg.

Tex., Lubbock—Hilton Hotel Co., W. R. Irwin, Sec.-Treas., 1933 Main St., Dallas, let contract to Robert E. McKee, 1918 Texas St., El Paso, for \$500,000, 12-story, 200-room Hilton Hotel; Anton F. Korn, Archt., Thomas Bldg., Dallas. 2-7

Tex., Lubbock—Lubbock Hotel Co., W. A. Myrick, Pres., Hotel Lubbock, let contract at \$131,500 to W. G. McMillan for 5-story, brick, tile, stone, rein. conc., cast stone trim addition to Hotel Lubbock; plumbing and heating, \$32,500, J. C. Koriath Plumbing & Heating Co., Sherman; wiring, \$6153, Ware-Ramey Co., El Paso; Wyatt C. Hedrick, Inc., Archt., 1005 First Natl. Bk. Bldg., Fort Worth. 1-31

Tex., Perryton—Perryton Hotel Corp., J. L. North, Box 2831, Amarillo, Tex., let contract to Hill & Carr, Panhandle, Tex., for \$65,000, 3-story, 75x140-ft. brick and tile hotel; conc. and wood floors, built-up roof; Berry & Hatch, Archts., Amarillo. See Want Section—Building Material and Equipment. 2-7

Tex., San Antonio—G. Sexauer, Central Trust Bldg., has permit for \$65,000, 16-room frame apartment, 802 W. Grammercy St.; J. K. Sherrod, Contr., 1203 Agarita St.

Va., Hopewell—Kallstromer Construction Co. erect \$25,000, 38x70 ft., 8-apartment; C. K. Baylis, 206 Goodman Bldg.

### Miscellaneous

Tenn., Forest Hill—Robert Cohen let contract to B. W. Cocke & Son, 63 S. Third St., Memphis, for \$15,000, 4-story, 28x332-ft., brick poultry house; comp. built-up roof, conc. and wood floors, heating, plumbing, electric wiring; Joe Wallace, Archt., 1516 Bk. of Commerce Bldg., Memphis.

Tex., Beeville—Dr. J. H. Rice let contract for E. B. Traweck for community center building on St. Mary's St.; started work on first unit to be used for sandwich shop; other units include camp cottages.

Tex., San Antonio—Commerce Realty Co., Aztec Bldg., has permit to remodel basement, 106 W. Commerce St., to be leased to Old South Cafe; \$12,000; R. C. Shane, Contr., Builders Exchange Bldg.; Robt. B. Kelly, Archt., Milam Bldg.

Tex., San Antonio—Rev. Chas. P. O'Gallagher has permit for \$10,000 brick and conc. chapel at St. Vincent De Paul Home, 366 Army Blvd.; Dielmann Construction Co., Contr., 306 E. Commerce St.

### Railway Stations, Sheds, Etc.

S. C., Edgefield—Georgia and Florida R. R., H. B. Holmes, Ch. Engr., Augusta, Ga., let contract to Blackburn & Proctor, Madison, Ga., for passenger and freight station; frame and stucco.

### Schools

D. C., Washington—Georgetown University, Dr. C. W. Lyons, Pres., Georgetown Heights, reported, let contract to C. H. Tompkins, 1608 K St., N. W., for \$500,000 Medical-Dental Bldg., 40th St. and Reservoir road, N. W.; 4 stories, 284x180 ft., steel and conc., slate finish roof, vapor heat, unit heaters; George A. Didden, Archt., Bond Bldg. 1-17

Ky., Lexington—University of Kentucky started work on \$340,000, 2-story, 90x352-ft., rein. conc., brick and steel building; 900,000 cu. ft., rein. conc. and linoleum floors, slate and built-up roof; J. H. Hardyman Co., Contr., Maysville; Werner & Mitchell, Archts.-Engrs., Cleveland, O.; also let contract at \$90,000 to J. T. Jackson Lumber Co., for \$150,000 office and dairy buildings; 50x117 and 90x60 ft., 2 stories, rein. conc. and brick; Frankel & Curtis, Archts.-Engrs.

Md., Baltimore—Morgan College, Dr. J. O. Spencer, Pres., let contract to Consolidated Engineering Co., 20 E. Franklin St., for 3-story and basement, 67x154-ft., stone and steel, fireproof dormitory, Morgan Park, Arlington Ave.; Spanish type, accommodate 100 boys; E. L. Tilton, 141 E. 45th St., and A. M. Githens, 420 Lexington Ave., New York, Archts. 10-25

Okla., Optima—Bd. of Education let contract at \$11,000 to J. E. Miller for 1-story, 99x102 ft., brick school; The Huseman Co., Archt., Chickasha.

S. C., Spartanburg—Wofford College, Dr. Henry N. Snyder, Pres., let contract to J. M. Crawford & Son for \$40,000, 1-story, 109x138 ft., brick and steel field house; basket ball court, seats for about 1200 spectators, showers and locker rooms; J. Frank Collins, Archt., Andrews Law Bldg. 1-3

Tex., Gainesville—Cooke County let contract at \$10,600 to T. D. Blanton for 1-story, 32x85-ft., brick and tile dormitory; wood floors, tile roof; Voelcker & Dixon, Archts., Wichita Falls.

### Stores

Ark., Forrest City—Sterling Stores, Inc., erect 1-story, 88x60 ft., brick, 4-story building; comp. built-up roof, wood floors, stone trim; Estes W. Mann, Archt., Cotton Exchange Bldg., Memphis, Tenn.; owner builds.

Fla., Miami—Bayshore Investment Co., care Neider & Seiler, Archts., Calumet Bldg., let contract at \$30,000 to Gunn & Goll, Inc., Security Bldg., for 2-story, 60x60 ft., rein. conc. store and apartment, Biscayne Blvd. and 56th St.; tile and wood floors, tile and comp. roof. 1-3

Ga., Rome—May Realty Co. let contract at \$47,000 to Grahm Construction Co., Red Rock Bldg., Atlanta, for 2-story and basement, 82x100-ft., rein. conc., steel, brick, terra cotta trim store to be leased to I. Silvers Five and Ten Cent Stores, New York; Lockwood & Poundstone, Archts., and Edw. F. Billie, Asso. Archt., both Forsyth Bldg., Atlanta. 2-14

Ga., Valdosta—Phil C. Pendleton and Albert J. Little started work on 2 stores, Lee and Valley Sts.; hollow tile.

Ky., Louisville—Sears-Roebuck & Co., Chicago, let contract to B. W. Construction Co., 720 Cass St., Chicago, for \$500,000, 3-story, brick building, 504-24 W. Broadway; Moll Co., 901 Fehr Ave., razing buildings on site. 12-20

Mo., Springfield—Drs. Wallace and Souther, care W. W. Johnson, Contr., 301½ College St., remodel 3-story, brick store and apartment, Kimbrough and St. Louis Sts.

Mo., St. Louis—F. Yawitz, 2533 Pine St., has permit for 3-story, 25x31-ft. brick store and hotel, 3232 Olive St.; comp. roof; owner, Bldr.

Mo., St. Louis—D. Blattner, 2731 Elliott St., erect \$10,000, 1 and 2 story, 38x90-ft. brick store and tenement, 1729 S. Seventh St.; J. Tarde, Bldr., 5404 Itaska St.

Okla., Oklahoma City—Montgomery Ward & Co., Chicago, F. M. Durland, Local Mgr., reported, soon start work on \$750,000, 10-story, brick, stone, rein. conc. store; day labor; plans by C. H. Getz, Chicago.

Tenn., Chattanooga—Nashville-Chattanooga Properties Co., Rogers Caldwell and associates, let contract to Mark K. Wilson Co., Power Bldg., for store on Market St., to be leased to Palmer Clothing Manufacturing Co., W. E. Brock, Pres., 102 E. 11th St.; also expend \$25,000 for remodeling building adjoining.

Tenn., Johnson City—Charles Stores Co., Inc., 370 Seventh Ave., New York, erecting 2-story, 50x136-ft. department store, 308-10 E. Main St.; Burleson & Laws, Contrs.; plans by Charles Bleakley, 370 Seventh Ave., New York. 12-20

Tenn., Chattanooga—Orr Barnes Construction Co., Volunteer Bldg., started work on

enlarging and remodeling W. T. Grant Store on Market St.; \$20,000.

Tex., Houston—T. B. Hubbard Construction Co., 1507 Shepherd St., has contract to remodel building, Travis St. and Prairie Ave., for White House; Henry F. Jonas & Tabor, Archts., Union Natl. Bk. Bldg.

Tex., Turkey—J. N. Cypent let contract to Clifford Hedrick for 30x60-ft. brick building on Main St.

Tex., San Antonio—Herff Land Co., 102 Alamo St., has permit for remodeling building; \$28,000; C. C. Dishman, Contr., 303 Mary St.

Tex., San Antonio—J. C. Penney Co., W. C. Johnson, Local Mgr., S. Alamo and Commerce Sts., let contract at \$36,542 to C. C. Dishman, 305 Mary St., for remodeling 4-story building; plans by Penney Engineering Dept., 330 W. 34th St., New York. 2-7

Tex., Vernon—Mrs. Elizabeth Herring let contract at \$43,700 to Taylor Bros. Construction Co., Brown Bldg., Wichita Falls, for store to be leased to Montgomery Ward & Co., Chicago; Wyatt C. Hedrick, Inc., Archt., First Natl. Bank Bldg., Ft. Worth.

Va., Norfolk—Following sub-contracts awarded on 4-story, 70x115-ft., steel, fireproof building, Granby and Tazewell Sts. and Monticello Ave., and remodeling Dickson Bldg. adjoining for S. S. Kresge Co., Detroit, W. T. Gregory, Gen. Contr., 332 Law Bldg., Norfolk; Pilling, W. D. Murray Co., 314 Colley Ave.; struc. steel, Norfolk Iron & Wire Works, 136 W. Wilson Ave.; conc., Haycox Concrete Co., Seaboard Bk. Bldg.; roofing, ventilation, American Sheet Metal Corp., 2713 Colley Ave.; plastering, S. Mirabella & Sons, 1617 Morris Ave.; electrical work, Wm. A. Burckard, 60 Commerce St.; marble and tile, Bonney Tile Co.; millwork, C. M. Baylor & Co., 1209 Brambleton Ave., all Norfolk; rein. steel, Concrete Steel Co., Pennsylvania Bldg., Philadelphia; plans by Kresge's Engineering Dept. See Want Section—Building Material and Equipment. 2-7

### Theaters

Tex., Waco—Dent Theatres, Inc., 2000½ Jackson St., Dallas, started work on \$150,000 Waco Theater, using part of original Hippodrome Theater; new front to be 4 stories, brick and ornamental stone, electric sign 35 ft. high, enlarge and renovate stage, increase seating capacity to 1650, redecorate interior, equip with talking picture equipment.

### Warehouses

Ala., Attalla—Alabama-Attalla Lumber Co., southern distributor for English Wagon Works, English, Ind., broke ground for 130x250-ft. warehouse on Third St.

Ala., Birmingham—Harold Harper, of Jemison & Co., 221 N. 21st St., negotiated contract with Mackle Building Co. for 1-story, brick building, 716-18 N. 9th St., Smith Park, to be leased to Gardner-Denver Co., 2128 First Ave., for office, warehouse and distributing plant.

Fla., Pensacola—Louisville and Nashville R. R. Co., W. H. Courtenay, Ch. Engr., erecting 400x104 ft., brick and steel warehouse; W. Horace Williams Co., Inc., Contr., Ft. of Rens St. 2-7

Mo., St. Louis—Bixby-Smith, Inc., let contract to McCormick & Sons Construction Co., Columbia Bldg., for \$25,000, 1-story, 60x124-ft. brick and stone office and warehouse, Leffingwell and Washington Aves.; comp. roof, hot air heat; T. P. Barnett, Archt., Arcade Bldg. 11-15

### Bay City Shovels, Inc.

The Bay City Dredge Works, Bay City, Mich., announces its change of name to Bay City Shovels, Inc., No change in policy or ownership is contemplated.

### Great Britain Awakens.

Largely on the example of the United States, Great Britain is learning the power of sound advertising, says W. H. Harford in an article, "The Problem of Absorption," in Anglo-American Trade, London, for February. Great Britain has been awakening to a realization of the need for more concentration upon modern marketing methods and modern advertising, he also says. The article is timely and of wide interest.

# WANT SECTION

## THE CLASSIFICATIONS IN THIS SECTION ARE:

### Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

### Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

### Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

### Machinery and Supplies

**Candy Making Equipment.**—J. P. Long, Lincolnton, N. C.—Wants prices and data on new or used machinery for making candy.

**Cloth Sample Pinking Machine.**—Character Products Co., Inc. (textile company), Drawer 130, Salisbury, N. C.—Wants cloth sample pinking machine.

**Garment Manufacturing Equipment.**—O. K. Spears & Co., Walland, Tenn.—Wants prices and data on machinery and equipment for manufacturing bloomers.

**Hosiery Mill Equipment.**—Harry R. Howell & Co., W. A. Pollard, 519-521 Ingraham Bldg., Miami, Fla.—Wants prices and data on full fashioned hosiery mill machinery.

**Laundry Equipment.**—Walton County Chamber of Commerce, DeFuniak Springs, Fla.—Wants prices and data on laundry machinery.

**Thompson Fish Co., Inc., A. M. Adams, Key West, Fla.**—Wants prices and data on machine for pressing sawdust into bricks for boiler fuel.

**Perry Crosier, Waiteville, W. Va.**—Wants prices and data on following:

- (1) Apple Peeling Machinery
- (2) Evaporators and Dryers
- (3) Fruit Grinders
- (4) Lithograph Labels and Advertising.

**W. M. Smith & Co., Sam Smith (Railroad and Logging Equipment), Birmingham, Ala.**—Wants prices and data on following:

- (1) Cars (Gondola)—10 to 20, 70-ton, hopper bottom
- (2) Crane (Locomotive)—20 to 30-ton
- (3) Crane (Overhead)—20-ton, 60-ft. span
- (4) Machine Shop Equipment—complete.

**Ala.-Ga. Pecan Crackeries Co., Henry L. Moore, Executive Mgr. (Dealers in Paper Shell and Regular Pecans), Union Springs, Ala.**—Wants prices and data on machines for packing and sealing pecan meats in vacuum tins.

**Cumberland Public Service Co., Burkesville, Ky.**—Wants following for electric light improvements:

- (1) Aluminum Wire
- (2) Transmission Line Material—for 25 mile, 13,000 volt line.

**W. M. Smith & Co. (Railroad and Logging Equipment), Birmingham, Ala.**—Want prices and data on following:

- (1) Belting (Conveyor)—50 to 150 ft., 36 in. wide
- (2) Brake—sheet metal forming, and other used equipment for making tin cans
- (3) Motors (Slip Ring)—10, 20, 30, 50 and 100-h. p., 2200 volts.

### Miscellaneous.

**Sprays.**—Burnett's Boiler and Tank Works, Thomasville, Ga.—Wants prices and data on hand and bucket sprays for white washing.

**Lambert No-Mix Service Tray Co., L. Lambert, Pres., P. O. Box 98, Oakland, Calif.**—Wants to contract with Eastern manufacturer of enameled kitchen ware for making patent No-Mix service pan.

**Ala.-Ga. Pecan Crackeries Co., Henry L. Moore, Executive Mgr. (Dealers in Paper Shell and Regular Pecans), Union Springs, Ala.**—Wants prices and data on following:

- (1) Box Shooks
- (2) Tins (Vacuum)—and decorated tin boxes.

### Building Material and Equipment

**John W. Cowper Co., Inc., State Planters Bank Bldg., Richmond, Va.**—estimating on following, desires prices on sub-contract work and material: C. & O. Ry. Shops, Richmond, bids Mar. 6; C. & O. Ry. freight house, Covington, Va., bids Mar. 12; Chesapeake and Potomac Telephone building, Richmond, bids Feb. 27.

**John T. Blevine, Van Buren, Ark.**—wants

prices and data on used or slightly damaged building materials, in car lots, or in local shipments.

**W. T. Gregory, Contr., 322 Law Bldg., Norfolk, Va.**—wants prices on maple flooring for 4-story, 70x115-ft. building for S. S. Kresge Co.

**Compania Bauer, Caracas, Venezuela, S. A.**—Wants prices and data on cement-asbestos board houses, complete in sizes of 2, 4, 6, 8 and 10 rooms, earthquake-proof, 1-story; also 2-story, 20-room houses.

**J. L. North, Box 2831, Amarillo, Tex.**—wants prices on following for \$65,000 hotel, Perryton, Tex.:

- Flooring—terrazzo, tile
- Roofing (flat)—built-up, tile.

**Jac. C. Wilkes, 3806 Garfield St., Washington, D. C.**—wants prices on following for \$28,000 residence:

- Electric Refrigerators
- Flooring—linoleum
- Roofing—slate
- Brass and Bronze Work.

**H. A. Churchill & John Gillig, Archts., Fayette Bank Bldg., Lexington, Ky.**—want prices on following for \$50,000 city hall, Cynthiana, Ky.:

- Flooring—hardwood, linoleum, tile
- Limestone Trim
- Roofing—built-up
- Tile—hollow
- Vault (1)
- Ventilators.

**Edw. A. George, Archt., Giddens-Lane Bldg., Shreveport, La.**—wants prices on following for \$100,000 store for J. H. Dominick:

- Elevators
- Metal doors
- Steel sash and trim
- Terra cotta trim
- Wire glass.

**Geo. R. Mann, Wanger & King, Archts., Donaghey Bldg., Little Rock, Ark.**—want prices on following for \$200,000 bank building:

- Cast Stone
- Elevators
- Flooring—terrazzo, tile
- Incinerator
- Limestone
- Marble
- Metal Doors
- Roofing—built-up
- Steel Sash and Trim
- Tile—gypsum, hollow
- Vaults
- Vault Lights
- Ventilators
- Wire Glass
- Brass and Bronze Work.

**George M. Maverick Estate, Maverick Bldg., San Antonio, Tex.**—wants prices on cast stone for \$11,544 addition to store.

**Virginia Building Material Co., L. C. Tolson, Pres. (Building Specialties), Sauer Bldg., Richmond, Va.**—Wants prices and data on metal clothes closets for bedrooms.

**Ralph H. Cameron, Archt., City Natl. Bk. Bldg., San Antonio, Tex.**—Wants prices on following for \$55,000 dwelling:

- Cast Stone
- Electric Refrigerators
- Flooring—hardwood, tile
- Incinerator
- Limestone
- Marble
- Roofing (Hip)—slate
- Tile—hollow
- Brass and Bronze Work.

**A. H. Whisman, Contr., 422 Front St., Knoxville, Tenn.**—wants prices on following for \$250,000 hospital:

- Incinerator
- Limestone
- Marble
- Roofing—built-up
- Tile—gypsum, hollow
- Brass and Bronze Work.

**Rev. C. D. Montgomery, Pastor, St. Pauls M. E. Church, South, Muskogee, Okla.**—wants prices on material and equipment for church, including:

- Art Glass
- Brick
- Heating Plant
- Metal Ceilings
- Metal Doors
- Pews and Pulpit Set
- Pianos
- Pipe Organ
- Roofing (type not determined)
- Steel Sash and Trim
- Ventilators
- Wire Glass
- Brass and Bronze Work.

**W. T. Helms, Ponotoc, Miss.**—wants prices on following for residence:

- Cast Stone
- Dumb Waiters
- Electric Refrigerators
- Flooring—white oak, linoleum, tile
- Limestone
- Mail Chutes
- Metal Doors
- Roofing—asphalt shingle.

**Fitzhugh Knox & Sons, 809 Norris Bldg., Atlanta, Ga.**—want prices on following for \$150,000 apartment:

- Electric Refrigerators
- Incinerator
- Marble
- Metal Ceilings.

### Bids Asked

**Bridges.**—Kansas City, Mo.—Bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—State of Virginia—Bids for 4 bridges. See Construction News—Roads, Streets, Paving.

**Chlorinator.**—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids Mar. 13 for furnishing and installing chlorinating apparatus and accessories at Naval Academy, Annapolis, Md.

**Dry Colors, etc.**—Pur. Agt., Bureau of Engraving and Printing, Washington, D. C.—Bids June 4 for approximately 400,000 lbs. mixed blaac, 1100 lbs. carbon black, 20,000 lbs. precipitated magnetic oxide of iron, 1,000,000 lbs. barytes, etc., as required during fiscal year 1930.

**Gravel.**—Holly Springs, Miss. See Construction News—Roads, Streets, Paving.

**Gravel, etc.**—Louisiana Highway Comm., L. R. Ames, State Highway Engr., Baton Rouge, La.—Bids Feb. 26 for washed and screened gravel, 40% and 50% sand-clay gravel, reef shell, clam shell, crushed limestone, slag and sand, for maintenance purposes during Mar., 1929.

**Hangar.**—Office of City Comn. of City of Montgomery, Ala.—Bids Mar. 4 for airplane hangar, Upper Wetumpka Rd.; Frederick Ausfeld, Archt., Shepherd Bldg.

**Hardware.**—State Building Comm., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, Miss.—Bids Mar. 7 for finished hardware for buildings for University of Mississippi, Oxford, Miss.; according to plans by Frank P. Gates Co., Archt. and Engr., 507 Edwards Hotel Bldg., Jackson, Miss.

**Intake Works.**—See Water Works, Pumping Station, etc.

**Leather.**—Pur. Agt., Government Printing Office, Washington, D. C.—Bids Mar. 11 for 2500 ft. red, 300 ft. brown and 500 ft. maroon cowhide bookbinding leather.

**Lighting Fixtures.**—Treasury Dept., Office Supervising Archt., Washington, D. C.—Bids Mar. 14 for furnishing all labor and material for installing special lighting fixtures in administration building of U. S. Dept. of Agriculture, Washington, D. C.

**Limestone Trim.**—State Building Comm., W. C. Trotter, Sec., New Capitol Bldg., Jackson, Miss.—Bids Mar. 7 for furnishing Oolitic limestone trim f. o. b. cars Oxford, Miss., for following buildings for University of Mississippi at Oxford: Cafeteria, law school, athletic field house, pump house; all according to plans prepared by Frank P. Gates Co., Archt. and Engr., 507 Edwards Hotel Bldg., Jackson, Miss.



**Miscellaneous.**—State Building Comm., W. C. Trotter, Sec., New Capitol Bldg., Jackson, Miss.—Bids Mar. 7 for furnishing following equipment and material f. o. b. cars, Oxford, Miss., for University of Mississippi: Dump wagons, one crawler type or track layer tractor, 4-wheeled scrapers, drag scrapers, rippers, plows, picks, shovels, mattocks, filling spades, lumber, building material, plumbing fixtures, convict kitchen equipment; all according to plans prepared by Frank P. Gates Co., Archt. and Engr., 507 Edwards Hotel Bldg., Jackson, Miss.

**Miscellaneous.**—State Building Comm., W. C. Trotter, Sec., New State Capitol Bldg., Jackson, Miss.—Bids Mar. 7 for landscape work at Mississippi State Sanatorium, Sanatorium, Miss., including small tools, tree moving outfit, 1-ton dump truck, cement, sand, gravel, brick, lumber, pipe, precast stone benches, seed, fertilizer, crushed limestone, nursery stock plants, etc.

**Miscellaneous.**—Bureau of Engraving and Printing, Washington, D. C.—Bids Mar. 25 for paper boxes, paper box blanks, paper and check paper during fiscal year beginning July 1, 1929.

**Models.**—Treasury Dept., Washington, D. C.—Bids Feb. 27 for plaster models for Internal Revenue Building, Washington.

**Oils, Driers, etc.**—Pur. Agt., Bureau of Engraving and Printing, Washington, D. C.—Bids May 22 for 72,000 gals. burnt oil, 5500 lbs. lithographic varnish, 1500 lbs. plate oil, etc.

**Paving.**—Pryor, Okla. See Construction News—Roads, Streets, Paving.

**Paving.**—St. Louis, Mo. See Construction News—Roads, Streets, Paving.

**Paving.**—Savannah, Ga. See Construction News—Roads, Streets, Paving.

**Paving, etc.**—Huntington, W. Va. See Construction News—Roads, Streets, Paving.

**Paving, etc.**—Fort Sam Houston, San Antonio, Tex. See Construction News—Roads, Streets, Paving.

**Pipe (Cast Iron).**—See Sewers.

**Pipe (Cast Iron).**—Bd. of Directors, Nueces County Water Improvement Dist. No. 1, Corpus Christi, Tex., E. E. Ludwig, Pres.—Bids March 2 for 6-in. and 4-in. c. i. pipe and fittings for water mains.

**Pumps.**—U. S. Engr. Office, Vicksburg, Miss.—Bids Feb. 26 for 3¼-h. p. electric driven double acting duplex pumps.

**Pumping Units.**—See Water Works, Pumping Station, etc.

**Redwood Lumber.**—Gen. Pur. Officer, Panama Canal, Washington, D. C.—Bids Feb. 28 for 11,000 pcs. approximately 198,000 ft. b m. California redwood lumber. Sch. 1944.

**Road.**—Holly Springs, Miss. See Construction News—Roads, Streets, Paving.

**Road.**—Many, La. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Louisiana—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

**Road.**—Arabi, La. See Construction News—Roads, Streets, Paving.

**Road.**—Winnfield, La. See Construction News—Roads, Streets, Paving.

**Road.**—Rosslyn, La. See Construction News—Roads, Streets, Paving.

**Roads.**—Somerville, Tenn.—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—State Highway Dept., Dover, Del.—Bids Mar. 12 for 3 roads: Cont. 115-122 mi. Milford toward Cedar Neck School, 5,000 cu. yd. excavation and borrow, 1,820 cu. yd. cement conc. pavement, 9,000 lb. reinforcement, 1,600 lin. ft. wood shoulder curb; Cont. 116-2 mi. Newport to Gap Turnpike, 19,000 cu. yd. excavation and borrow, 3,500 cu. yd. cement conc. pavement, 150 cu. yd. broken stone base, 10,500 lb. reinforcement, 4,600 lin. ft. wood shoulder curb; Cont. 117-6.01 mi. Milton-Ellendale road, 31,000 cu. yd. excavation and borrow, 9,325 cu. yd. cement conc. pavement, 2,500 lb. reinforcement, 8,000 lin. ft. wood shoulder curb.

**Road.**—Kansas City, Mo. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Virginia—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

**Road.**—Guntersville, Ala. See Construction News—Roads, Streets, Paving.

**Road.**—Pascagoula, Miss. See Construction News—Roads, Streets, Paving.

**Road Building Equipment.**—Humphreys County Bd. of Supvrs., A. R. Hutchins, Clk., Belzoni, Miss.—Bids March 4 for caterpillar tractor or equivalent, one 10 ft., one 11 ft. and one 12 ft. grader for Road Dist. No. 2.

**Roofing, Cornice, etc.**—Treasury Dept., office of Supervising Architect, Washington, D. C.—Bids Mar. 13 for new roof covering,

cornice, etc., of U. S. custom house, Norfolk, Va.

**Sewage Pumps.**—See Sewers.

**Sewers.**—City of Lafayette, La., J. Gilbert St. J. Julian, Mayor, J. B. McCrary Co., Atlanta, Ga., Engrs.—Bids March 21 for material, equipment and construction of sanitary sewer extensions and accessories; includes following: 62,530 ft. of sanitary sewers, 3 sewage pumps, sprinkling filters, settling tanks, sludge bed and accessories; all equipment, material and supplies to be furnished by general contractor except sewage pumps and sewer pipe, which may be purchased direct by city.

**Sewers.**—City of Durham, N. C., R. W. Rigby, Mgr.—Bids Feb. 26 for sanitary sewer mains and connections and furnishing sewer pipe and casings; construction includes 47,000 ft. of 8-in., 3800 ft. of 10-in. and 1600 ft. of 12-in. sewer mains, 3400 ft. of 4-in. and 61in. c. i. connections; materials include 50,000 ft. of 8-in., 2500 ft. of 10-in. and 1200 ft. of 12-in. sewer pipe; 2300 ft. of 6-in. standard soil pipe; 230 manhole covers, 200 dustpans, 20 flush tanks.

**Shell.**—State of Louisiana. See Construction News—Roads, Streets, Paving.

**Sprinkling Filters.**—See Sewers.

**Steam Boilers.**—See Water Works, Pumping Station, etc.

**Steam Power Plant Piping.**—See Water Works, Pumping Station, etc.

**Street.**—Birmingham, Ala. See Construction News—Roads, Streets, Paving.

**Street.**—Winston-Salem, N. C. See Construction News—Roads, Streets, Paving.

**Stitcher.**—Pur. Agt., Government Printing Office, Washington, D. C.—Bids Feb. 27 for multiple head wire stitcher, with electrical equipment.

**Street.**—St. Louis, Mo.—See Construction News—Roads, Streets, Paving.

**Syphon (Concrete).**—Cameron County Water Improvement Dist. No. 1, Harlingen, Tex.—Bids Feb. 25 for furnishing all labor

and material and constructing concrete syphon under Arroyo Colorado.

**Towers.**—U. S. Engr. Office, Norfolk, Va.—Bids Mar. 6 for fabricating and delivering, or for fabricating, delivering and erecting 2 rigid steel towers at Fort Story, Cape Henry, Va.

**Trees.**—State Highway Dept., Dover, Del.—Bids Mar. 12 for trees for planting along State Highway: Cont. "R"—3,250 Elm, 1700 Plane, 100 Weeping Willow.

**Viaduct.**—Big Spring, Tex. See Construction News—Bridges, Culverts, Viaducts.

**Waste Paper.**—Penn Paper & Stock Co. (Paper Stock), Wm. J. McGarity, Prop., 238-40 Front St., Philadelphia, Pa.—Wants white paper shavings, free of ground wood; also other grades of waste paper.

**Water Works.**—Q. M. Corps, Army and Navy General Hospital, Hot Springs National Park, Ark.—Bids Feb. 26 for enlargement of service reservoir building No. 15.

**Water Works, Pumping Station, etc.**—City of Dallas, Tex., Fuller & McClintock, Consult. Engrs., 170 Broadway, New York, J. B. Winder, Ch. Engr. of Water Supply Division—Bids March 15 for construction of water works improvements as follows:

Contract No. 1—Intake works, comprising 2500 ft. of intake conduit, tunnel and appurtenances.

Contract No. 2—Pumping station, conc., brick and terra cotta walls, with piping, valves, crane, etc.

Contracts No. 3 to 10, inclusive—Covering various classes of equipment to fit the station for pumping by 4 alternative methods, namely, purchased electric power, steam power, Diesel-engine-generated electric power, and gas-engine-generated electric power; separate bids may be made as follows: (a) motor pumping units, switchboard and control; (b) steam boilers; (c) steam turbine pumping units; (d) turbo generators, switchboard and certain motor-pumping units; (e) steam power plant piping and auxiliaries and (f) Diesel or gas engine generator sets and generator switchboard.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

### Jeffrey Acquires Gallon.

Purchase of the entire common capital stock of the Gallon Iron Works and Manufacturing Company, Gallon, Ohio, by the Jeffrey Manufacturing Company, Columbus, Ohio, is described as a step in the Jeffrey company's plan for additional development into basic industries. The Gallon products include a full range of gasoline and steam road rollers, leaning wheel road graders, tractor power graders, road drags, road plows, cast-iron and special non-corrosive galvanized culverts and miscellaneous equipment for road work; also, elevating and conveying equipment for handling coal, stone, gravel and other materials into central storage plants. The new officers include D. C. Boyd, chairman; Robert W. Gillispie, president and general manager; J. S. Boyd, vice-president; F. W. Faber, secretary and treasurer.

### Milwaukee Corrugating Expands.

L. Kuehn, president and treasurer of the Milwaukee Corrugating Company, Milwaukee, Wis., announces extensive additions to the Eastern plant, the Eller Manufacturing Company, Canton, Ohio, the new buildings and machinery to cost \$200,000. The construction involves more than 50,000 square feet of floor space for the Milcor line of firesafe sheet metal products, including Milcor metal lath and allied products, rain carrying equipment, furnace pipe and fittings, stove pipe and elbows, metal ceiling and tile, etc.

### Acquires Acetylene Products.

The Prest-O-Lite Company, Inc., New York, has acquired the business of the Acetylene Products Company, with acetylene producing plants at Phoenix, Ariz., and at El Paso, Texas, which now are being operated as units of the Prest-O-Lite chain. The Prest-O-Lite now has 38 plants. Carl F. Chosak is superintendent of the El Paso plant.

### All About Arkansas.

In a comprehensive book entitled, "Arkansas Business Laws and Taxation," a great amount of varied information on those and related business subjects has been issued by a commission authorized for that purpose in 1927. "Find the facts, filter the facts, face the facts," is the principle on which the commission has worked. George Vaughan, Little Rock, is chairman, and J. S. Waterman, Fayetteville, is secretary, with headquarters at Little Rock.

### James J. Curran Changes.

James J. Curran, for many years metallurgist with the Southern Engineering Company, Hartford, Conn., is now metallurgical engineer with the Harrisburg Pipe and Pipe Bending Company, Harrisburg, Pa. Mr. Curran will be in charge of chemical and metallurgical control and development of the varied line of carbon and alloy steels, hydraulic and drop forgings and drawn seamless cylinder specialties manufactured by the Harrisburg company.

**\$500 in Prizes for Electric Heat Slogan.**

Seven prizes, totaling \$500, will be awarded by the National Electrical Manufacturers Association and the National Electric Light Association for the best slogans to promote the use of electric heat in industry.

Each contestant may submit not more than three slogans and each slogan must be accompanied by an analysis not exceeding 100 words. Preference will be given to brevity in slogans. The awards will be made on the basis of the best slogan and analysis. First prize will be \$250, second \$100, third \$50, and four of \$25 each.

There is scarcely an industry in which electric heat is not applicable. Some of the present industrial uses of electric heat are in smelting, refining, hardening, tempering and enameling of metals, annealing glass, firing vitreous enamelware, baking enameled and japanned products, drying painted products, core baking in foundries, commercial baking of bread and cake and drying fruit.

Contestants should submit each slogan and its accompanying analysis on a separate sheet. The contestant's name and address should appear ONLY on the outside of the envelope which should be addressed to "NEMA-NELA Slogan Contest, National Electrical Manufacturers Association, 420 Lexington avenue, New York City." Slogans must be mailed before midnight, May 30, 1929, at which time the contest closes. Results of the competition will not be made public before June 30, 1929.

**General Statistics Expands.**

The General Statistics Corporation, New York, announces that the Publishers Graphic Service has been merged with it and that Fred H. Peard will be manager of the publication department. The concern prepares and redraws tables, charts, diagrams and blue prints for printing or engraving reproductions.

**Virginian's New General Agent.**

W. S. Saunders, general freight agent of the Virginian Railway Company, announces that W. H. Casson has been promoted to general agent, at Pittsburgh, Pa., with office at 635 Oliver Building, vice T. W. Partlan, resigned to engage in other business.

**American Bemberg Sizes.**

The American Bemberg Corporation, Elizabethton, Tenn., adds to its line the new sizes 40, 30 and 25 denier. To complete this group of fine counts, a 15 denier yarn with 24 filaments will be added shortly.

**Heating and Plumbing Supply Manufacturers Merge.**

Directors of the American Radiator Co., New York, and the Standard Sanitary Manufacturing Co., of Pittsburgh, Pa., have approved a plan for the consolidation of the two companies through the organization of a new holding company to be known as the American Radiator & Standard Sanitary Corp. on the basis of an exchange of stock of the new company for preferred and common stock of the American Radiator and Standard Sanitary companies. The former now has outstanding 30,000 shares of 7 per cent cumulative preferred stock (non-callable) and 1,322,620 shares of common stock, while the latter has outstanding 47,864 shares of 7 per cent non-cumulative preferred stock and 3,234,486 shares of common stock. On the basis of a complete exchange, the new company will have outstanding 47,864 shares of preferred stock and 8,937,460 shares of no par value common stock, these being the only shares to be issued in the effectuation of the

**Business in the South.**

"Is the South Setting the Pace?" is the subject of a leading article by Eugene Whitmore, in Sales Management and Advertisers Weekly, New York. From El Paso to Richmond and from St. Louis to New Orleans and Miami, there is no boom, but "almost everybody is busy and everybody who deserves to be is prosperous," Mr. Whitmore says. This issue of January 26 is of particular interest.

**Westinghouse Refrigerator Department.**

An electric refrigeration department has been organized by the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., with headquarters at Mansfield, Ohio. J. S. Tritle is general manager, and also continues as general manager of the merchandising department. Carl D. Taylor has been appointed manager of the refrigeration department by Mr. Tritle.

**Moves St. Louis Office.**

The Harnischfeger Sales Corporation, Milwaukee, Wis., distributor for the Harnischfeger Corporation, announces the removal of its St. Louis office from 524 Buder Building to 791 Arcade Building. L. F. Lincoln remains in charge. The products handled include gasoline, Diesel and electric driven excavators, electric traveling cranes, hoists and monorail systems.

**Erects Steere Purifier.**

The Semet-Solvay Engineering Corporation, New York, has erected a Steere welded steel purifier with new type trays for the Alabama Power Company's plant at Montgomery. The box is equipped with a gantry crane for operating the oxide doors.

**Trade Literature**

**Rayon.**—The story of the development of a powerful element in industry is told in a report by the policyholders service bureau of the Metropolitan Life Insurance Company, New York, entitled, "Rayon: A New Influence in the Textile Industries." The report takes up plant requirements, a discussion of the volume necessary for profitable operation, an analysis of the uses of rayon or rayon mixtures, their major selling points and the income groups showing the strongest response to rayon products.

**Castings.**—"The Story of Smithco Steel Castings" is the title of a new catalog issued by the George H. Smith Steel Casting Company, Milwaukee, Wis. It takes the reader through the company's plant and describes the modern equipment, facilities and processes which enter into the production of Smithco electric steel castings. The catalog will be of special interest to users of small, high-grade steel castings who require a steady flow of such products.

**Florida Promotion Budgets.**

One of the many causes for the great development of Florida in recent years is set forth in a pamphlet, "Taxation in Florida for Community Advertising and Promotion," compiled by William Trotter Hicks, research assistant in the general extension division of the University of Florida, Gainesville. Productive publicity is discussed in various phases, and the budgets of various Florida cities and sections are detailed.

**Heating and Ventilating.**—The new "900" series of the Buckeye Heatovent is described in detail by word and picture in a booklet issued by the Buckeye Blower Company, Columbus, Ohio. Typical specifications are given. The company has offices also at Atlanta, Baltimore, Dallas and Kansas City, Mo.

**Power Shovels.**—Operation, care, adjustment and application of Lorain power shovels, cranes, clamshells, draglines and backdiggers are described in the Thew Handbook, issued by the Thew Shovel Company, Lorain, Ohio. The book, which also carries diagrams, tables and specifications, is copyrighted and is priced at \$1.

**Skelly News.**—Among the interesting features in the February issue of Skelly News, published by the Skelly Oil Company, Tulsa, Okla., is a story on the selection of W. G. Skelly, president, as the most useful citizen in his community in 1928. Mr. Skelly was given a trophy, suitably inscribed. Illustrations add to the attractiveness of the issue.

**Louisiana Red Cypress.**—Facts about Louisiana red cypress, "the wood eternal," are set forth in a booklet issued by the Louisiana Red Cypress Bureau, New Orleans, which also contains "the true story of Evangeline." Numerous illustrations show uses of the wood in exterior and interior work, and various articles describe its advantages.

plan. Principal offices of the new company will be maintained in New York and it is understood that Clarence M. Woolley will be elected chairman of the board and Theodore Ahrens, president.

**Coach and Mill Shops for Missouri Pacific Lines.**

Contract has been awarded by the Missouri Pacific Lines, C. S. Kirkpatrick, Houston, chief engineer, for the construction of a coach shop and mill shop at Kingsville, Tex., to cost approximately \$106,000. The former will be 240 by 148 feet, of steel frame construction with corrugated asbestos siding and roofing and reinforced concrete foundation and floors. It will be provided with six tracks and six bays and a 15-ton overhead traveling crane in one of the latter. The mill shop will be 128 by 50 feet, of similar construction, and will be equipped with a flower system and all necessary mill shop machinery for coach and car work. The Orange Car & Steel Co., of Orange, Tex., has contract for the buildings.



## **\$4,500,000 DAIRY MERGER COMPLETED IN FLORIDA AND OTHER STATES.**

### **Penney and Forman Interests Consolidate 25 Plants in 20 Cities of Florida, Alabama, Georgia and South Carolina.**

By DR. BURDETTE G. LEWIS, Vice-President J. C. Penney-Gwinn Corporation, in Charge of Florida Properties.

Involving physical assets of more than \$4,500,000, a total of 25 dairy, ice cream and ice companies in 20 cities of Alabama, Florida, Georgia and South Carolina have been merged into an organization to be known as the Foremost Dairy Products, Inc., the principals being J. C. Penney, nationally known chain store operator with extensive Florida interests, and George M. Forman & Co., bankers of New York and Chicago. The writer will be president of the new organization, with general offices in Jacksonville.

Prominent Jacksonville operations are included in the merger, including the J. R. Berrier Ice Cream Co., while other Florida interests include the Tampa Stock Farms Dairy Co. of Tampa and Sarasota; Halifax Creamery, Inc., Daytona Beach; W. C. Berrier Creamery, Inc., Lakeland; S. M. Breedlove Co., Live Oak, Fla., and Valdosta, Ga.; Flowers Ice Cream Co., Tallahassee, Fla., and Thomasville, Ga. In addition to the Valdosta and Thomasville interests, other Georgia companies involved are: Jessup & Antrim, Atlanta Ice Cream Co., Gate City Dairy & Ice Cream Co., all of Atlanta; Georgia-Carolina Dairy Products Co. and the Augusta Ice & Coal Co., Augusta; Joseph Costa Co., Athens; Paulitch's Creamery, Savannah; Ashburn Distributing Co., Ashburn; Cordele Creamery & Cold Storage Co., Cordele; Columbus Dairy Co., Columbus, and H. E. Roberts, Macon Pure Milk Co. and Kennett & Odum, all of Macon. The Barber & Jefferson Dairies, Birmingham, Ala.; the Rogers Ice Cream Co., Columbia, S. C., and the Hub City Ice Cream Co., Spartanburg, S. C., also are in the merger.

Hugo Larsen, formerly purchasing agent for the Finnish government in Denmark and later in the United States, and representative of the Finnish dairy industry in England, will be vice president of the company. Mr. Larsen recently organized the sales work of the milk business in Cleveland, Ohio, and in Scranton, Pa. Mr. Penney will be chairman of the board of directors of the company, while other executives will include: George Sancken, Augusta, Ga., vice president in the production division and A. L. Lund, formerly assistant comptroller of the Dairyman's League of New York, and associated with the Borden Food Products Co., treasurer. In addition to the officers, directors will include Robert Chambers, vice president of George M. Forman & Co.; Lee H. Edwards, also connected with the Forman interests; Ralph W. Gwinn, vice president of the J. C. Penney-Gwinn Corp. and counsel of the J. C. Penney Co., New York, and J. C. Penney, Jr. C. L. Edwards will be general sales manager and Robert Van Eepoel, of the Tampa Stock Farms, Tampa, will be engaged in production work.

For the present it is the general plan of the Foremost Dairy Products, Inc., to continue operations of the plants in the merger under the direction of the present management, with the executive control and management vested with the general offices in Jacksonville. Companies involved represent current sales of more than \$6,000,000 it is estimated. The new organization will retail and wholesale milk and milk products, and in a small way will handle cold storage in certain localities. Facilities for making condensed milk are available and will be enlarged as operations of the company expand. Lactic fermented milk, cottage cheese and other specialty products also will be made.

Mr. Penney and his organization have assisted in reorganizing the citrus industry in Florida and shipping mixed cars of

fruits and vegetables out of Florida, the latter in cooperation especially with the Federated Fruit and Vegetable Growers. It seems that there are possibilities of combining the sale and delivery of grapefruit and orange juices with milk and ice cream. Modern refrigeration has proven that orange juice frozen and kept frozen will keep for a considerable length of time. It is the hope that it can be handled in the same type of can in which ice cream is handled, so that hotels, restaurants and soda fountains may be serviced with these juices at the same time and with the same equipment with which they are serviced with ice cream, milk and cream.

A principal purpose of the organization is to coordinate production and sales and to facilitate measures for properly handling excess production of milk in periods of low consumption. Owing to a wide variation between peak consumption of milk in the Southeast and the low consumption mark, and because of the lack of properly organized merchandising and manufacturing facilities to coordinate the two, there has been a large amount of milk and cream imported into this section in the peak of consumption periods. Local dairy farmers will be enabled to get the benefit of this peak consumption through a better distribution of their production and through the plans of the new company to take care of excess production through evaporation and lactic fermentation processes. The chief purpose of the company will be to produce a quality of milk which will reach the highest standards set by producers of certified and grade A milk throughout the country and to extend this into the field of ice cream and other milk and cream products. The Forman organization, which recently completed the organization of the Southwestern Dairy Products Co., Inc., operating in Arkansas, Texas and Mississippi, will act as fiscal agents of the Foremost Dairy Products, Inc.

The Penney interests will bring a wide experience in merchandising and in dairy operations to the sales and general executive operations of the company, Mr. Penney having been particularly active in Florida, where the Penney-Gwinn Corp. owns 120,000 acres of land for farm development.

### **Earthquake Proof Houses for South America.**

In a letter to the MANUFACTURERS RECORD, Compañia Bauer, Caracas, Venezuela, advises that all available details and prices are desired on cement-asbestos board houses complete in sizes of 2, 4, 6, 8 and 10 rooms, the structures to be 1 story in height and proof against earthquake. The company also desires prices on 2-story houses of 20 rooms each and wants shipping weights, specifications, plans and models. It is desired that every house be complete in detail, including supplies for electric installation, locks, windows, sashes and paint. In this connection, Charles F. Z. Caracristi, a consulting engineer of Caracas, advises that houses constructed of cement and asbestos board fastened with iron frames, are being imported into tropical countries from Europe and thinks that construction could be modified to meet practical tropical requirements.

### **Texas Tariff Meeting Postponed.**

On the eve of the date scheduled for a conference of Texas advocates of a protective tariff, at Dallas, February 19, announcement was made that the meeting had been postponed until March 8. The earlier date was announced through the MANUFACTURERS RECORD last week and the change was made later.

The House of Representatives, Washington, has passed a bill appropriating \$100,000 for the improvement and preservation of the Abraham Lincoln National Park at Hodgenville, Ky.

## THE MANGANESE SITUATION IN 1928.

### Large Increase in High Grade Ore Shipments From Georgia.

There was little change in domestic shipments of manganese ore containing 35 per cent and more of metallic manganese in 1928; these totaled approximately 45,000 long tons, valued at \$1,197,000, according to preliminary figures compiled by the Department of Commerce. The 1927 shipments amounted to 44,741 tons, valued at \$1,151,918. Shipments of metallurgical ore amounted to 30,000 tons, valued at \$561,000; those of 1927 were 27,730 tons, valued at \$446,781. Shipments of chemical ore in 1928 amounted to 15,000 tons, valued at \$636,000; in 1927, 17,011 tons, valued at \$705,137.

The plant owned by the Domestic Manganese and Development Co. was put in operation and treated rhodochrosite ore from the Emma mine at Butte, Mont., operated by the Anaconda Copper Mining Co. It produced 11,118 tons of calcined and modulized material containing 56.45 per cent manganese. There was also some metallurgical ore shipped from Phillipsburg, but the quantity was small. Phillipsburg shipped 14,300 tons of chemical ore in 1928, compared with 16,382 tons in 1927. Arkansas shipments of high grade ore increased from 2,605 tons in 1927 to 3,800 tons in 1928; there was a large increase in shipments from Georgia, and a large decrease from Idaho. No high grade shipments were reported for Nevada in 1928.

The total estimated importation was approximately 420,000 tons in 1928, as compared with 622,067 long tons in 1927. Imports of manganese ore from Soviet Russia for the first 11 months of 1928 amounted to 152,746 tons, compared with 253,544 tons for the entire year 1927; Brazil, 120,000 tons, compared with 174,028 tons for the entire year 1927; India 76,600 tons, compared with 93,017 tons for 1927. Imports from British West Africa for the first 11 months of 1928 amounted to 24,186 tons, compared with 87,230 tons for the entire year of 1927.

For the first 11 months of 1928 the manganese content of ferromanganese imported was 44,325 tons as compared with 34,018 tons for the entire year 1927.

There was a record production of steel in 1928, estimated at 51,400,000 tons of ingots and castings, and a consequent demand for ferromanganese and in turn for manganese ore. The Iron Trade Review estimated production of ferromanganese in 1928 as 316,000 tons, compared with 294,991 tons in 1927, and second only to the outputs of 1918 and 1926. Domestic production of manganese ore, however, was little changed in 1928, and imports decreased from 622,067 tons of ore in 1927 to 386,734 tons in the first 11 months and approximately 420,000 tons for the entire year. At the rate of manganese ore consumption per ton of ferromanganese produced, reported by ferromanganese producers in 1927, the domestic production of ferromanganese in 1928 required approximately 632,000 tons of manganese ore. Assuming that the amount of manganese ore imported for chemical uses was offset by the quantity of metallurgical manganese ore produced in the United States in 1928, approximately 420,000 tons of ore was available for metallurgical uses, 212,000 tons less than was required by the producers of ferromanganese. Most of this tonnage is accounted for by the decrease in the quantity of manganese ore in bonded warehouse, officially reported as 183,477 tons of manganese content on December 31, 1927, and 96,918 tons on October 31, 1928, a decrease of 86,559 tons of manganese content, equivalent to at least 173,000 tons of ore. The remainder of the ore required, between 35,000 and 40,000 tons, must, therefore, have been drawn from stocks at the plants of consuming companies.

Shipments of domestic ore containing from 10 to 35 per cent of manganese (ferruginous manganese ore) in 1928 were 87,000 tons, valued at approximately \$391,000, as compared

with 148,291 tons, valued at \$673,921 in 1927. Domestic shipments of ore containing from 5 to 10 per cent of manganese (manganiferous iron ore) in 1928 were 1,090,000 tons, valued at \$2,640,000, as compared with 1,310,127 tons, valued at \$3,270,460, in 1927. Decrease in shipments of ferruginous manganese ore was contributed to mainly by Colorado, Georgia, Michigan and New Mexico. Apparent decrease in shipments of manganiferous iron ore is due to the falling below 5 per cent manganese content of ore in Wisconsin that contained over 5 per cent in 1927. Shipments from Minnesota, 1,029,000 tons in 1928, showed an increase over the 934,599 tons shipped in 1927.

### Lead and Zinc in 1928.

The output of primary domestic desilverized lead in 1928 was about 345,000 tons; of soft lead about 226,000 tons, and of desilverized soft lead about 53,000 tons, making a total output from domestic ores of about 624,000 tons of refined lead, according to the Department of Commerce. Corresponding figures in 1927 were 378,889 tons of desilverized lead, 233,944 tons of soft lead, and 55,487 tons of desilverized soft lead, making a total of 668,320 tons. The output of antimonial lead in 1928 was about 25,000 tons, as compared with 24,347 tons in 1927.

The output of primary metallic zinc from domestic ores in 1928 was about 582,100 tons and that from foreign ores was about 12,400 tons, a total of 594,500 tons, as compared with 576,960 tons from domestic ores and 15,556 tons from foreign ores, a total of 592,516 tons in 1927. In addition to the output of primary zinc there was an output of about 52,100 tons of redistilled secondary zinc, as compared with 42,784 tons in 1927, making a total supply of distilled and electrolytic zinc in 1928 of 646,600 tons. Of the total output of primary zinc in 1928, 103,000 tons was electrolytic zinc produced in Oklahoma, and some in Arkansas, Texas and West Virginia.

### Fertilizer Production Census.

Fertilizer production by companies engaged primarily in fertilizer manufacture was valued at \$165,272,337 for 1927, reports the Department of Commerce. This is a decline of 11.6 per cent from the census of 1925, in which year the production was valued at \$187,003,635.

Establishments numbering 621 reported in 1927, of which, 437 are listed in the South, distributed as follows: 114 in Georgia, 84 in North Carolina, 55 in Alabama, 49 in South Carolina, 45 in Maryland, 44 in Virginia, 24 in Florida, 11 in Louisiana and 11 in Mississippi. Seventy-five plants, in 19 states, are not allocated. Neither are the many cotton seed oil plants that make fertilizers as a by-product; yet their aggregate tonnage is large.

Some of the establishments reported as primarily fertilizer plants make other chemicals. The total production for all products is shown in the accompanying table.


#### SUMMARY FOR THE INDUSTRY, 1927 AND 1925.

			Per cent of increase or de- crease (—)
Number of establishments....	621	587	5.8
Wage earners (average for the year) .....	18,612	19,644	— 5.3
Wages .....	\$17,649,661	\$17,743,327	— 0.5
Cost of materials, supplies, containers for products, fuel and purchased power, total.	\$138,142,925	\$137,808,185	0.2
Materials, supplies and containers .....	\$135,368,365	.....	..
Fuel and power .....	\$2,774,560	.....	..
Products, total value .....	\$190,384,890	\$206,772,904	— 7.9
Fertilizers, value .....	\$165,272,337	\$187,003,635	—11.6
Fertilizer materials sold in condition in which pur- chased (merchandising), value .....	\$10,284,513	\$19,769,269	27.0
All other products, value...	\$14,828,040	.....	..
Value added by manufacture.	\$52,241,965	\$68,964,719	—24.2
Horsepower .....	156,274	152,193	2.7



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## Economic and Educational Conditions in the Mountains.

By REV. DR. J. W. O'HARA, Superintendent, Department of Mountain Schools, Baptist Home Mission Board, Asheville, N. C.

Economic conditions in the mountains are slowly improving. Educational conditions are gradually changing for the better. However, neither approaches the ideal; much remains to be done everywhere.

Lands along the rivers and creeks are fertile, but the valleys are narrow. On the mountain sides are large numbers of small, rocky, steep farms. Families are large, income is small, living is simple. Only the barest necessities of life can be supplied. While there is perhaps more money in circulation now than in the past, it is still scarce in the mountain territory, and parents with large families find it wellnigh impossible to provide educational advantages. Many are too far back in the mountains to be in reach of a high school.

The development of mining industries, the erection of hydro-electric plants, the timber industry, improvements in agriculture, the introduction of poultry and cattle raising, developments of orchards and other features, together with the building of highways, have brought a decided economic improvement. But this benefit has not gone in a very large measure to the mountain people. The profits have been reaped by those who better understood the value of these mountain resources. The mountain people must be taught the value of these things. The large capital of brain and brawn which they possess should be educated and trained that they, themselves, may become the developers of mountain assets.

Many have an insatiable thirst for an education. Our denominational schools and state education department have been reasonably successful in creating educational ideals. Literally hundreds throughout the mountains seek these advantages. Economic conditions stand as an almost insuperable barrier to the most of them. They have, as their only available resources, brain and brawn. They possess unwasted mental powers and strong bodies, with a willingness to work. They ask only to be given a chance.

We have two of our schools located in adjoining counties in north Georgia. There are no state high schools in either county. The assessed valuation of property in each is about \$950,000. Educational funds received from the school tax amount to around \$4000 per year; the State has to supply almost twice this amount for grammar grade purposes alone. In one of the counties, half the schools have no desks or other schoolroom equipment. One blackboard was the headboard of an old time bedstead, painted black. Other counties in the northern part of the State are largely in the same condition. The state must supply from 50 to 75 per cent of the educational funds to provide even a six-month's grammar school education. Also, transportation systems are greatly handicapped, with either no roads or poor roads.

The growth of an educational ideal and the present economic conditions are largely responsible for the army of young people who are applying to our schools for admittance. They have an ambition for an education. We have supplied work to about 900 each year, but have turned away at least 1500 annually for the past two years. With the increasing educational ideal this number will for a number of years increase rather than decrease. Our dormitories are practically full this year, except the large dormitories at one or two schools, and could we supply industrial features, which would provide work for boys and girls, we could keep all of our dormitories filled for years to come.

The schools this year are handicapped for funds. However, there is an encouraging response in greater local support, and progress will be made in financial support and debt elimination. Friends who are providing scholarships are

greatly aiding us in solving the finances of the schools for the session. The schools are functioning in the same large way in training and preparing leaders for the churches. The sacrifices of teachers, the struggles of trustees and the splendid service of student bodies, are bringing large results. We are hoping that these shall be rewarded with sufficient means for the session and a more adequate support for the next year.

## Simplified Practice Pays.

"Voluntary co-operation in self-government" by industry is a practical and essential part of present-day management methods. The fact that industry can and does get together and plan for greater economies in both manufacturing and selling, is borne out by a statement issued by the Division of Simplified Practice, Bureau of Standards. This statement reviews the degree of support accorded the more than 100 simplified practice recommendations promulgated to date by American industry since the establishment of the division.

The Division of Simplified Practice is the only organization engaged in waste elimination through simplification and standardization, which makes an annual factual review of the extent of usage of its recommended practices and standards. Twenty-four simplified practice recommendations were audited in 1928 to ascertain the average degree of support each has received. The manufacture of commodities covered by these 24 programs was 87.03 per cent in conformity with the respective program.

Effectiveness of the recommendations as demonstrated by the annual surveys made has steadily risen each year, according to Ray M. Hudson, assistant director of the Bureau of Standards. "The consistently higher degree of adherence for a steadily increasing number of completed simplifications," declared Mr. Hudson in his report, "means that American industry has found that simplified practice pays well. It is not offered as a panacea for all the ills of industry or business, but as an agency for better production and selling methods through joint participation in such program by manufacturer, distributor, and consumer." Simplified practice is based entirely on voluntary co-operation, in which each element receives equal consideration.

The Division has received many reports regarding the practical value of the programs, ranging from reported savings of \$20,000,000 accruing to business from the simplified bank check to the savings of an Eastern manufacturer of self-opening die heads in reducing his inventory \$225,000 and saving \$13,000 in annual interest charges as well as saving \$10,000 through reduced obsolescence and \$12,000 in office pay roll.

Simplified practice, declared Mr. Hudson, is nothing more or less than a method of reducing variety in the production of sizes, dimensions, types, models and patterns of commonplace commodities to the number necessary to meet the practical need of the trade.

## 90 Acres for Airport at Daytona Beach.

Daytona Beach, Fla., February 15.—The municipality has leased for two years 90 acres of ground immediately south of the city and fronting on Halifax River as an airport site. Pitcairn Aviation, Inc., which has contract for carrying mail, with Daytona Beach as one of the stopping points, will erect a hangar and make other improvements needed. The contract with the Government calls for the establishment of mail airplane service on March 1. The plane will leave Daytona Beach at 3.17 P. M. for Atlanta and connect at that city with a plane due to arrive in New York at 4.35 the next morning. Mail service will be inaugurated on the Chicago route later when night planes are put on that division.



## Steel Mills Completed at St. Louis—To Roll Billets and Re-roll Rails.

The Scullin Steel Co., St. Louis, is now operating a group of mills for rolling billets and re-rolling rails into bar size sections, including agricultural shapes from either rail or billet stock. The main equipment consists of two 16-inch stands for roughing and slitting, three 14-inch mill stands and five 12-inch mill stands that finish at both ends, permitting the head and flange to be finished simultaneously. The 16-inch mill, built by the United Engineering & Foundry Co., Pittsburgh, Pa., is driven by a 600-horsepower mill type motor made by the Westinghouse Electric & Manufacturing Co., East Pittsburgh, operating at a speed of 480 r. p. m. through a gear reduction set made by the United Engineering & Foundry Co. The 14-inch mill consists of one two-high and two three-high stands furnished by the Treadwell Engineering Co., Easton, Pa. It is driven by a 600-horsepower Westinghouse mill type motor at 485 r. p. m., driving through a herringbone gear reduction set made by the Fawcett Machine Co., Cleveland, Ohio. The 12-inch mill consists of three three-high roughing stands and two two-high finishing stands, driven by an 800 horsepower Westinghouse motor. A great deal of flexibility will be allowed, it is said, in rolling light and heavy sections.

A five-stand three-high 8-inch mill for handling web when re-rolling rails is driven by a 300-horsepower General Electric motor at 375 r. p. m. through a reduction and fly-wheel set furnished by the Farrell-Birmingham Co., Inc., Ansonia, Conn. Two mechanical and one hand operated hot beds are conveniently located to receive finished bars from the stands. The beds are 135 feet long, one being built by the United Engineering & Foundry Co. and the other two by the Scullin Steel Co. Two No. 3 United vertical shears are used on the flange and head hot beds and a smaller shear for the web.

The mill building is 75 by 380 feet and the shipping building is 75 by 310 feet. They were fabricated by the Stupp Bros. Bridge & Iron Co., St. Louis, a greater part of the steel shapes being rolled by the Scullin Company in its 24-inch mills. The buildings are equipped with steel ventilating sash made by the Crescent Steel Co., St. Louis. Adjacent to the mill building there is a brick motor control house, 40 by 120 feet, which houses all drive motors, controls and panels, and the 750-kilowatt rotary converter for supplying 220 volts direct current for cranes, tables, etc. Outside the motor control house there is an outdoor sub-station designed by the Scullin company with three 750 kv-a. and three 300 kv-a. General Electric transformers. Current is brought to the sub-station at 13,200 volts and is carried on a steel pole line 3000 feet from the 24-inch mill group sub-station, where current is received at 13,200 volts from the Union Electric Light & Power Co. All mill drives are 2200 volts, 25 cycle, alternating current.

A complete water system of the spray-pond type was installed for cooling water for furnaces and roll trains. It has a capacity of 2000 gallons per minute, handled by two Dayton-Dowd centrifugal pumps through spray nozzles made by the Binks Spray Equipment Co., Chicago. A billet yard, 75 by 250 feet, is served by a 15-ton Whiting crane, while the mill building is served by a 10-ton Alliance crane and the shipping building by a crane designed and built by the Scullin company. The billet furnace is 7 by 45 feet inside, and the rail furnace 18 by 45 feet. Both are equipped for burning oil and provided with modern electrically operated pushers and ejectors.

This group of mill buildings is a part of an extensive expansion program outlined by the Scullin company and was designed, erected and equipped by its own organization. The company has in operation one of the largest steel foundries in the United States, specializing in the manufacture of cast steel bolsters and side frames for railroad freight cars, in addition to a large output of locomotive castings, freight car

castings and miscellaneous castings. For a number of years it has operated rolling mills producing steel shapes, such as beams, channels and angles and railroad tie plates. About two months ago it began the production of railroad spikes.

## \$12,000,000 Additional Expenditure by Rock Island Lines.

Dallas, Tex.—According to information from the Chicago office of the Rock Island Lines, that company will expend approximately \$12,000,000 for new equipment and new 110-pound rail in addition to its \$25,000,000 budget announced the first of the year. Its 1929 budget, as previously announced, provides for the construction of new lines and improvements to existing properties.

## Possible Causes of Current Unemployment.

Some of the reasons why men are not taken into new jobs as quickly as they are thrown out of old ones, and why business fails to absorb available labor supply at existing wage rates, were discussed by Professor S. H. Slichter of Cornell University, at the recent Chicago meeting of the American Economic Association and American Association for Labor Legislation. That there has been a substantial drop since 1923 in the number of persons engaged in manufacturing, in railroads, and in agriculture—in spite of an increase in output—was pointed out by Professor Slichter, who adds:

"A remarkable fact of the situation since the War is that it is among the industries where the increase of output per worker has been greatest that the increase in employment has been most general and it is among the industries where the increase in output per worker has been smaller that the decreases in employment have been most general. Technical development in any industry has not caused displacement of labor except in a very indirect way.

"Far more important causes of unemployment since 1923 in factories and railroads have been limited markets. The fact is that whatever the nation's total output, the production of manufactured goods and railroad transportation both have increased far more slowly since 1923 than in the first 20 years of this century. Even this modest increase in output has been forced on the market only by substantial price reductions. The second important cause for the factory and railroad drop in employment is the movements of non-agricultural wholesale prices, long-time interest rates and wages.

"Rising prices retard displacement of labor by increasing the proportion of wage earners who can profitably be employed in old and obsolete plants and with old and obsolete equipment. Wages always lag behind and make it profitable for employers to delay the replacement of old equipment. Technical progress between 1899 and 1919 created little unemployment because price trends were such that it paid employers to hire all or nearly all the labor available.

"On the other hand, falling prices and interest rates give up-to-date plants an advantage. They reduce the cost of building new plants and new machines and thus help to drive old plants and old machines out of use. But it is in the old plants and on the old machines that labor is least productive and in the new plants and on the new machines that it is most productive. Consequently, as the new and best equipped plants have taken business from the older and more poorly equipped, laborers have been displaced more rapidly than they have been hired."

In short, declared Professor Slichter, changes in price relationships since 1920 have altered the combination of profitable productive factors. As long as businesses are engaged in making a rapid shift from a combination of factors which involves more labor and less capital to a combination which involves less labor and more capital, we are likely to have a large amount of unemployment which is neither seasonal nor cyclical.

The remedy for current unemployment, as stated by Professor Slichter, is twofold: A readjustment in prices which will make it profitable no longer to displace labor more rapidly than it pays to hire it, or such a stimulation of the growth in demand for commodities as would absorb the displaced labor as rapidly as it comes on the market.

# FINANCIAL NEWS

## Bond Issues Proposed

Ala., Mobile—Public Improvement—City, Cecil F. Bates, Mayor, receives bids Feb. 26 for \$500,000 5% \$1000 denom. bonds. 2-14

Ala., Mobile—Bd. of School Comms. considering \$800,000 bond issue; Commr. Herman H. Wefel, Jr., Chmn. of Finance.

Ala., Tusculumbia—School—City Council considering \$40,000 bond election.

Fla., Dunedin—Refunding—City, W. Lovett Douglas, Mgr., rejected bids for \$106,000 6% bonds. 1-10

Fla., Fort Pierce—City, J. W. Dunn, Clk., receives bids Mar. 5 for \$200,000 6% \$1000 denom. bonds; \$100,000, revolving fund; \$60,000, refunding, Series "A;" \$40,000, refunding Series "B." 2-14

Fla., Jacksonville—City, M. W. Bishop, Sec., plans voting after general city election in June, on \$2,100,000 bonds: \$1,500,000, sewerage extension; \$300,000, widening main highways; \$300,000, city's portion on street paving. 1-10

Fla., Punta Gorda—Refunding—City, Chas. K. Dodd, Mgr., receives bids Mar. 4 for \$107,000 6% \$1000 denom. bonds.

Ga., Columbus—City Comms. plan calling election May 18 on \$1,200,000 bonds: \$250,000, school; \$65,000, incinerator; \$115,000, city hospital; \$260,000, paving; \$400,000, sewer; \$50,000, park improvement; \$30,000, municipal airport; \$30,000, jail and stockade. 10-4

Ga., Cordele—Hydro-Electric Plant—Crisp County receives bids Mar. 19 for \$599,000 5% of authorized \$1,250,000 bond issue.

Ga., Forsyth—School—Monroe County Comms. plan bond election.

Ga., Milner—Bd. of Trustees, Milner Consolidated School Dist., H. T. Sikes, Chmn., receives bids Feb. 23 for \$25,000 5% \$1000 denom. bonds. 2-14

Ky., Louisville—Courthouse—Jefferson County Comms., considering \$5,000,000 bond issue.

Ky., Mayslick—Mayslick Consolidated School Dist., Mason County, voted \$50,000 bonds.

La., Pioneer—West Carroll Parish School Bd., Oak Grove, plans \$75,000 bond election soon.

La., Port Allen—City considering \$114,000 bond election for sewers and sidewalks.

Md., Upper Marlboro—Road—Prince Georges County considering \$500,000 bond issue.

Miss., Belzoni—Road—Humphreys County Bd. of Supvs. plans \$100,000 bond election in Beat 5.

Miss., Clarksdale—City votes Feb. 26 on \$530,000 bonds: \$280,000, school and library; \$250,000, sewer and street.

Miss., Meridian—Road—Lauderdale County Bd. of Supvs. plans receiving bids in April for \$200,000 bonds; J. B. Holland, Clk., Chancery Court. 2-14

Miss., Monticello—Lawrence County Bd. of Supvs. plans selling, in March, \$30,000 loan warrants to defray general county expenses.

Miss., Pleasantgrove—Pleasantgrove Consolidated School Dist., Panola County, votes Mar. 4 on \$25,000 bonds.

Mo., Fremont—Fremont Consolidated High School Dist., reported, voted \$19,000 bonds.

Mo., Jefferson City—Jail—Cole County considering \$100,000 bond election.

N. C., Bessemer City—Bd. of Education, R. R. Caldwell, Chmn., receives bids about Mar. 15 for \$40,000 bonds. 1-31

N. C., Chapel Hill—School—City votes in Mar. or Apr. on \$15,000 bonds.

N. C., Charlotte—School—City Comms. considering \$1,500,000 bond election. Lately noted considering \$3,000,000 bond election. 12-27

N. C., Durham—Public Improvements—City considering \$435,000 bond issue: \$200,000, Chapel Hill St. paving, etc.; \$100,000, sewer; \$50,000, water works; \$85,000, Roxboro-Pine St. underpass.

N. C., Hamlet—Indebtedness—City considering \$75,000 bond issue.

N. C., Shelby—School—City probably vote within few months on bonds for Special Dist. No. 33.

Okla., Bartlesville—City plans voting Feb. 26 on \$370,000 bonds: \$200,000, school; \$60,000, improve Civic Center; \$20,000, fire department; \$75,000, improve athletic field and new city parks; \$7000, street sweeper; \$6400, electric traffic signals. 2-14

Okla., Carter—Carter Consolidated School Dist. voted \$27,000 bonds.

Okla., Frederick—City votes soon on \$35,000 sewage disposal plant bonds.

Okla., Tonkawa—City, Ellis E. Davis, Clk., voted \$128,198, electric light plant purchase bonds. 1-10

S. C., Darlington—Refunding—City plans \$82,000 bond election.

S. C., Rock Hill—Water—City, W. P. Goodman, Mayor, receives bids Mar. 1 for \$300,000 bonds.

Tenn., Bristol—City, J. K. Brown, Atty., plans \$18,500 bond issue: \$10,000, water; \$8500, purchase property adjacent to courthouse.

Tenn., Clarksdale—Indebtedness—Montgomery County Court considering \$200,000 \$1,000 denom., not to exceed 5% bonds.

Tenn., Columbia—College—City, Harry W. Frierson, Mayor, and Maury County, plan voting within next month, on \$100,000 bonds, each, as their shares toward State Junior College.

Tenn., Greeneville—Indebtedness—Greene County Court considering \$200,000 bond issue.

Tenn., Jonesboro—Funding—Washington County considering selling \$500,000 5% bonds.

Tenn., Knoxville—Knox County, S. O. Houston, County Judge, receives bids Mar. 16 for \$100,000 5% \$5,000 denom. short term notes.

Tenn., Knoxville—Bridge—City, L. M. Emert, Dir. of Finance, plans selling \$900,000 of \$1,000,000 bond issue, within next 3 or 4 months.

Tenn., Lynchburg—Indebtedness—Moore County considering \$25,000 \$100 denom., not to exceed 6% notes.

Tenn., Mountain City—Water—City plans voting \$40,000 \$1,000 denom., not to exceed 6% bonds; will sell bonds.

Tenn., Newbern—School—Town postponed \$50,000 bond election. 2-14

Tex., Alice—Road—Jim Wells County Comms. Court plans \$160,000 bond election in Road Dist. No. 1.

Tex., Anahuac—Road—Chambers County, Wallisville, No. 1 Precinct, considering \$20,000 bond election.

Tex., Beaumont—School Bd. of French Independent School Dist., A. B. C. Dean, Supt., receives bids Mar. 14 for \$40,000 5% bonds; sale conditioned on bonds being voted Mar. 2. 2-4

Tex., Celeste—Improvement—City, J. A. Taylor, Mayor, may vote in April on \$50,000 bonds.

Tex., Crosbyton—Road—Crosby County Comms. Court, authorized Edgar Hutchins, County Judge, to advertise for bids for \$40,000 bonds. 1-17

Tex., Eagle Pass—Maverick County Water Improvements Dist. No. 1 voted \$1,800,000 bonds to finance widening canal for proposed irrigation dist. to furnish power for hydro-electric plant. 1-24

Tex., Lufkin—Street—City voted \$100,000 bonds. 1-24

Tex., Marlin—Paving—City, J. M. Kennedy, Mayor, voted \$200,000 bonds. 1-17

Tex., Paris—Sewer—City defeated \$250,000 bond election; J. M. Crook, Mayor. 1-17

Tex., Port Arthur—Bridge—City Comm., considering \$300,000 to \$500,000 bond election; W. O. Bower, City Engr.

Tex., Portland—Portland School Dist. votes Feb. 23 on \$15,000 bonds; E. E. Hammon & Co., Archts., City National Bank Bldg., Corpus Christi. 2-7

Tex., Tyler—City, Lee H. Powell, Mgr., voted \$230,000 bonds: \$175,000, sewerage disposal; \$30,000, fire station and equipment; \$25,000, airport. 1-31

Tex., Waco—City Council receives bids Mar. 19 for \$1,000,000 bonds for Bosque Dam; E. E. McAdams, City Mgr.

Tex., Waxahachie—School Bd., Capt. W. D. Anderson, Chmn., considering \$160,000 bond election in April.

Tex., Yorktown—Yorktown Independent School Dist. may vote soon on \$60,000 bonds.

Tex., Wellington—Road—Collingsworth County Comms., R. H. Templeton, County Judge, considering \$400,000 bond election. 1-3

Va., Danville—Water—City, C. B. Strange, Auditor-Clk., plans \$40,000 bond issue.

Va., Hopewell—City, Roy S. Braden, Mayor, considering \$750,000 bond issue, for public improvements, including repairing and building streets.

Va., Radford—Power Dam—City votes Feb. 26 on \$175,000 5% bonds.

Va., Winchester—City, L. R. Dettra, Mgr.,

(Continued on page 94)

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# FINANCIAL NEWS

(Continued from page 92)

voted \$50,000 bonds; \$125,000, sewer; \$150,000, street; \$100,000, school; \$125,000, re-financing. 1-17

W. Va., Elkins—Power Plant—City votes March 5 on \$135,000 bonds.

## Bond Issues Sold

Ga., Bowman—Bd. of Education, A. E. Denny, Sec., sold \$25,000 5% \$1,000 denom. Bowman School Dist. bonds, jointly, to J. H. Hilsman & Co., Inc., and Citizens and Southern Co. of Atlanta, both Atlanta, Ga. 2-7

Ga., McRae—J. H. Hilsman & Co., Inc., and Citizens & Southern Co. of Atlanta, both Atlanta, Ga., jointly purchased \$10,000 6% Telfair County Progress Public School Dist. bonds. 2-7

La., Winnfield—Jail—Winn Parish Police Jury, A. T. Jewett, Pres., sold \$36,000 6% bonds, to Well, Roth & Irving Co., Cincinnati, Ohio, at par and premium. 1-31

Miss., Centerville — Trustees, William Winans Institute Consolidated School Dist., Wilkinson County, sold \$40,000 \$1,000 denom. bonds to Whitney-Central Trust & Savings Bank, New Orleans, par, expenses and \$455 premium. 2-14

N. C., Hendersonville—Water—City sold \$20,000 5½% bonds to Bray Bros., Greensboro, \$75 premium. 1-17

N. C., Oxford—Street—City, W. P. Stradley, Clk., sold \$160,000, 5¼% bonds to Ryan, Sutherland & Co., Toledo, Ohio, par. 2-7

Okla., Ponca City—School—Bd. of Education, Jessie Bradley Esco, Clk., sold \$260,000 bonds to BrownCrummer Co., Wichita, Kansas, par and accrued interest; \$135,000 5%, \$125,000 4½%. 2-7

S. C., Saluda—City sold \$175,000 5% bonds jointly to Planters National Bank and Farmers Bank, both Saluda, at par; \$100,000, water; \$75,000, sewer. 1-17

Tex., Fort Worth—City, O. E. Carr, Mgr.,

sold \$1,500,000 4½% municipal improvement bonds to syndicate composed of Halsey, Stuart & Co., Inc., Chicago, Ill., White, Weld & Co., and R. W. Pressprich & Co., both New York City, 102.13. 2-7

Va., Covington—Alleghany County Com. Mrs. T. M. Gathwright, sold \$45,000 5% \$1,000 denom. bonds to Magnus & Co., 502 Dixie Terminal Bldg., Cincinnati, Ohio. 2-14

Va., Hillsville—Road—Carroll County Bd. of Suprs. sold bonds to Caldwell & Co., Nashville, Tenn. 1-17

Va., Portsmouth—City sold \$600,000 6% municipal notes to W. O. Gay & Co., 27 William St., New York City. 2-7

## Building and Loan Associations

Va., Norfolk—E. B. Sweat, Inc., capital \$50,000, chartered; E. B. Sweat, Pres.; making loans.

## New Financial Corporations

Ala., Montgomery—City Banking Co. of Montgomery, Greystone Hotel Bldg., capital \$50,000, organized; G. W. Covington, Jr., Pres., 1223 S. Perry St. 2-14

La., Bastrop—Bastrop State Co., Inc., capital \$300,000, chartered; Geo. T. Madison, Chmn.; W. B. Gladney, Pres.; securities and investments.

La., New Orleans—Orleans Supply and Investment Co., Inc., capital \$15,000, chartered; Edward Chassaniol, 633 Baronne St.

La., Shreveport—American Securities Co., Inc., capital \$50,000, chartered; R. P. Oden, 600 Market St.

Md., Baltimore—Geneva Corporation, Calvert Bldg., chartered; Huntington Cairns; deal in securities.

Mo., Springfield—McDaniel Securities Co., Inc., authorized capital \$50,000, chartered; George D. McDaniel, Campbell St. Rd.

Okla., Oklahoma City—South Oklahoma National Bank, 2527 S. Robinson St., capital

\$110,000, organized; Glen L. Dark, Pres., 1520 W. Thirty-fifth St. 2-14

S. C., Chesterfield—Bank of Chesterfield, capital \$25,000, chartered; J. A. Welsh, Pres.; D. L. Smith, Cashier.

Tenn., Gainesboro—Security Bank & Trust Co., capital \$50,000, chartered; P. P. Cassety, Pres.; H. L. Page, V.-P.; Frank Gailbreath, Cashier; open about Mar. 1.

Tex., Kosse—First National Bank reorganized and changed name to Kosse National Bank; J. J. Shuttle, Pres.; C. O. Robertson, V.-P.; M. A. Gunter, Cashier.

Tex., Neches—Neches State Bank, capital \$20,000, opens Feb. 15; J. E. Angly, Pres., Palestine; U. M. Brock, Cashier, Bryan. 2-14

Poles Industrial Loan Corp., J. D. Pruitt, Pres., Danville, Va., plans increasing capital, \$50,000 to \$100,000.

Security State Bank, J. W. Roberts, Pres., Miami, Okla., plans changing name to Security Bank and Trust Co., and increasing capital, \$50,000 to \$100,000.

Frost National Bank, J. H. Frost, Pres., and Lockwood National Bank, Joseph Muir, Pres., both San Antonio, Tex., merged as Frost National Bank, T. C. Frost, Pres., \$1,200,000 capital.

Savings Building and Loan Assn., Joe P. Summers, Johnson City, Tenn., plans increasing capital to \$1,500,000.

First National Bank, Walter W. Smith, Pres., and Liberty Central Trust Co., F. E. Gunter, Pres., both St. Louis, Mo., merged with \$213,177,986 total resources.

American Finance Corp., Commercial Bank Bldg., Shreveport, La., opens branch office in Suite 504, Guaranty Bank Bldg., Alexandria, La.; S. O. Williams, Pres.

Old National Bank, H. H. Emmert, Pres., Martinsburg, W. Va., plans increasing capital, \$100,000 to \$125,000.

## Charleston Bank Consolidation With \$17,000,000 Assets.

Charleston, W. Va.—Details are being worked out for the consolidation of the Citizens' National Bank, Union Trust Co. and the Charleston National Bank, three of Charleston's leading financial institutions with combined assets of \$17,000,000. The new organization will be known as the Charleston National Bank, which will be capitalized at \$1,000,000 with surplus and undivided profits of \$2,000,000. It will occupy the present quarters of the Charleston National Bank.

## \$1,500,000 Kansas City Bonds Bring \$45,023 Premium—\$1,000,000 for Airport Development.

Kansas City, Mo.—Municipal bonds in the amount of \$1,500,000 were sold to Stern Bros. & Co. of Kansas City at a premium of \$45,023, the securities to bear an interest rate of 4½ per cent and to be retired serially in 25 years. Of the total, \$1,000,000 will be used for an airport and the remainder for docks and wharves.

## \$1,200,000 Bond Issue for Columbus, Georgia.

Columbus, Ga.—The City Commission tentatively agreed to call an election for May 18 on a municipal bond issue of \$1,200,000 for carrying out seven improvement projects, to include \$400,000 for sewers, \$250,000 for schools, \$115,000 for a city hospital, \$260,000 for street paving, \$65,000 for an incinerator, \$50,000 for parks, \$30,000 for jail and stockade and \$30,000 for an air field.

## New Bids Asked on \$1,500,000 Road Bonds.

Bids submitted January 19 to the Marion County Commissioners, Ocala, Fla., for the purchase of \$1,500,000 6 per cent road bonds have been rejected and new bids will be opened February 25.

## Texas City Votes \$230,000 Bonds.

Citizens of Tyler, Texas, have voted a bond issue of \$175,000 for sewage disposal, \$30,000 for building and equipping a fire station, and \$25,000 for building a municipal airport. Lee H. Powell is the city manager.

## Fort Worth Sells \$1,500,000 Improvement Bonds.

Fort Worth, Tex.—City bonds in the amount of \$1,500,000 have been sold to Halsey-Stuart & Co., Inc., Chicago, White Weld & Co. and R. W. Pressprich & Co., both of New York, at a price of 102.13. The issue will bear an interest rate of 4½ per cent and will consist of \$800,000 street bonds, \$500,000 for sewers, \$100,000 for waterworks and \$100,000 for bridges.

## Daily Movement of 34,651 Freight Cars by Chesapeake and Ohio.

According to President W. J. Harahan, Richmond, Va., there was an average daily movement of 34,651 freight cars on the Chesapeake & Ohio Railway during the month of January. This total consisted of 19,496 loads and 15,155 empties, exceeding last January's record by 2371 cars.

## Tennessee Central Railway Contemplates Nashville Growth.

Nashville, Tenn.—Increased activities of the Tennessee Central Railway would indicate that the company is preparing for industrial expansion in Nashville. During the past two months tracks serving the wholesale district of the city have been relocated and rebuilt, having been laid in concrete with heavy rail on creosoted ties, and paved. The railway purchased 6 city blocks on First avenue, between Molloy and Peabody streets, and extending to the Cumberland River, for the development of industries and the construction of warehouses to take care of business in this section.



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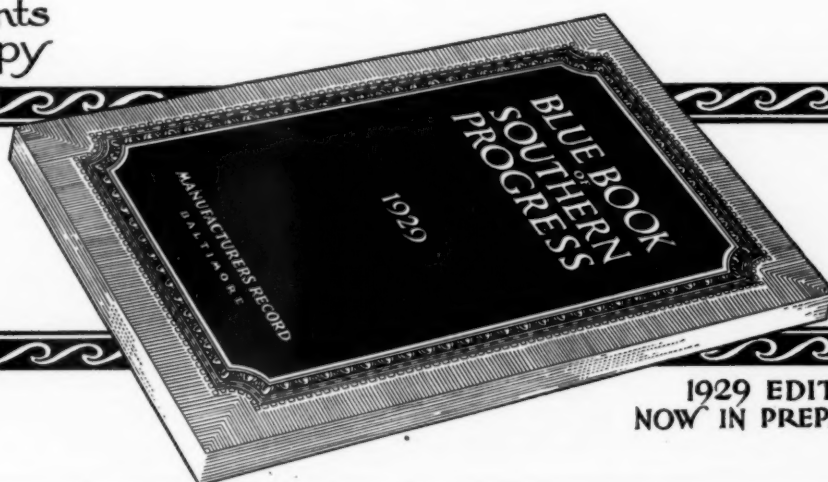
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### \$10,000,000 for Inland Waterways Improvements.

With a \$10,000,000 appropriation expected soon to become available, the Inland Waterways Corporation, Washington, D. C., owned by the United States and governed by the Secretary of War, with Major T. Q. Ashburn, chairman and executive, plans to construct a large number of barges for use on the Lower Mississippi, Upper Mississippi, Illinois and Missouri rivers. The corporation proposes to build the barges as interchangeable units capable of operating upon any of these rivers without transfer of freight from one barge to another.

The appropriation is embodied in the War Department's Appropriation bill carrying a total of \$500,000,000 for various purposes, which has recently passed the Senate and now goes to the President for approval.

### Virginia Furnishing Boxwood for Eastern Millionaires.

Approximately \$500,000 worth of Virginia's old Colonial boxwood, and antique furnishings and paneling from historic Virginia estates, has been carried out of the state the past year, according to estimates of the Virginia State Chamber of Commerce, which explains that several persons are making a business of buying all the Virginia boxwood they can get for prominent Eastern millionaires. Many estates of more or less prominence have been entirely denuded of boxwood to decorate estates in the North and East.

One estate recently bought at auction in Piedmont Virginia by a boxwood broker is reported to have been purchased for about half what the boxwood taken from it retailed for in New York. A yew tree at historic old Port Royal on the

Northern Neck of Virginia sold for \$1000. The paneling in another Northern Neck home has been sold at a price not announced, and the present owners of Stratford, the birthplace of Robert E. Lee and Richard Henry Lee, have been offered a small fortune for the paneling in the walls of the hall there but have declined to sell. In a number of instances, however, the more important estates are not only being carefully preserved, but old features destroyed or removed elsewhere are being restored by their present owners.

At Marion, Va., a dealer in boxwood has set out scores of fine boxwood trees eventually to be offered for sale.

### Phone Rate Reductions.

A reduction in day rates for toll and long distance telephone calls in the Bell System, representing a saving to the public annually of more than \$5,000,000, is the third in a little more than two years, and affects calls between points from 130 to 1490 miles apart. A feature is the elimination of extra charges for appointment and messenger calls, the only additional charge on messenger calls being the actual cost of the messenger service.

### \$500,000 Road Bonds Proposed for Maryland County.

State Senator Landsdale G. Sasscer of Upper Marlboro, Md., plans to introduce a bill in the Maryland Legislature now in session authorizing Prince George County to issue \$500,000 of bonds for an extensive road building program. Upon the passage of the bill at least 5 important road projects, it is said, will be started.



BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



## PROPOSALS

Bids close March 9, 1929.

U. S. Engineer Office, Wilmington, N. C. Sealed bids, in duplicate, will be received until 12 o'clock noon, March 9, 1929, and then publicly opened, for furnishing all labor and materials and performing all work for dredging approximately 1,689,375 cubic yards in Section V (Myrtle Sound, Cape Fear River) of the Intracoastal Waterway, from Beaufort to Cape Fear River, N. C. Further information upon application.

Bids close March 25, 1929.

TREASURY DEPARTMENT, Bureau of Engraving and Printing, Washington, D. C., February 13, 1929.—Sealed proposals are invited to furnish paper boxes, paper box blanks, paper and check paper during the fiscal year beginning July 1, 1929. Samples must be received at the Bureau of Engraving and Printing not later than 2 P. M. Monday, March 25, 1929. Blank forms with specifications for proposals, giving dates on which the bids for the several schedules will be opened, and further information will be furnished on application to A. W. HALL, Director.

Bids close March 13, 1929.

Sealed Bids, indorsed "Bids for Chlorinator, Specification No. 5797," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock A. M. March 13, 1929, and then there publicly opened, for furnishing and installing chlorinating apparatus and accessories at the Naval Academy, Annapolis, Md. Specification No. 5797 and accompanying drawing may be obtained on application to the Bureau or to the Superintendent, Naval Academy, Annapolis, Md. Deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawing and specification. L. E. Gregory, Chief of Bureau, January 18, 1929.

### GENERAL INFORMATION

#### About Proposal Advertising in Manufacturers Record

PUBLICATION DAY: Thursday.

FORMS CLOSE: 10 A. M. Tuesday.

When too late to send copy by regular mail to reach us by 10 A. M. Tuesday, forward by night letter or air mail when possible.

#### THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened or when daily insertions are necessary to meet legal requirements.

The rate is the same for both publications—35 cents a line each insertion.

Bids close March 13, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., February 15, 1929.—SEALED BIDS will be opened in this office at 3 P. M. March 13, 1929, for new roof covering, cornice, etc., of the U. S. Custom House, Norfolk, Va. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close March 12, 1929.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764, Arlington Building, Washington, D. C., until 11 A. M., March 12, 1929, and then publicly opened for furnishing all labor and materials and performing all work for construction of Buildings and Utilities including roads, walks, grading and drainage at U. S. Veterans' Hospital—Edward Hines, Jr., Maywood, Illinois. General Construction work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, limestone, marble work, floor and wall tile, iron work, steel sash, iron stairs with slate treads, wrought iron work, slate and metal roofing, metal lathing, plastering, carpentry, metal weather strips, insect screens, hardware, painting, glazing. SEPARATE BIDS will be received for General Construction, Plumbing, Heating and Electrical Work, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards, the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764, Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$50.00 payable to the TREASURER OF THE UNITED STATES is required as security for safe return of the drawings and specifications within ten days after date of opening bids. FRANK T. HINES, Director. February 9, 1929.